

FIG. 1A

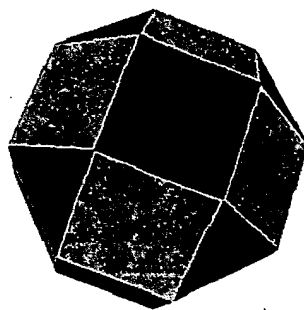


FIG. 1B

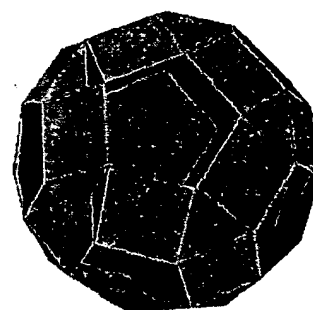


FIG. 1C

**BEST AVAILABLE COPY**

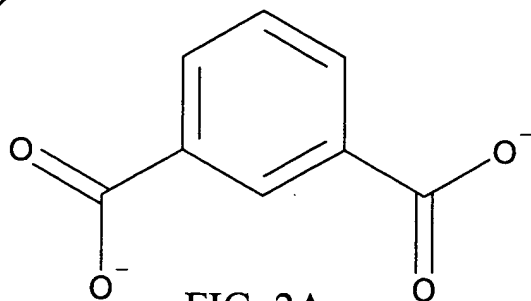
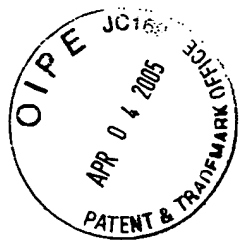


FIG. 2A

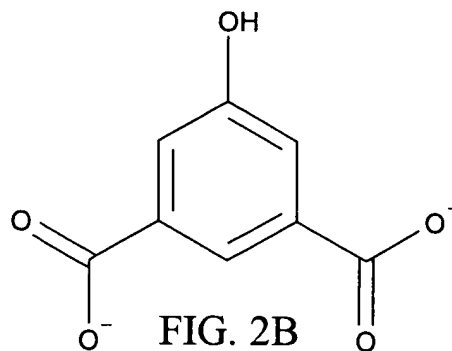


FIG. 2B

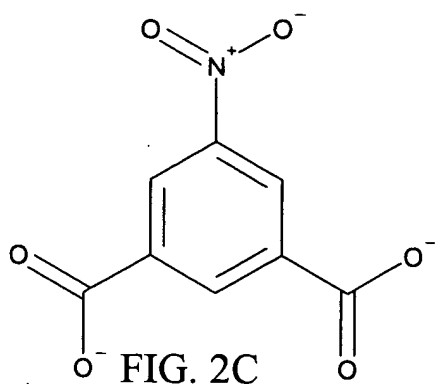


FIG. 2C

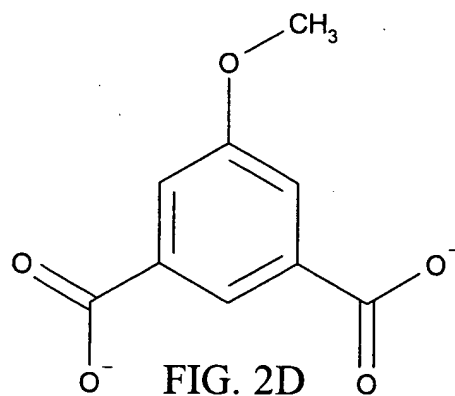


FIG. 2D

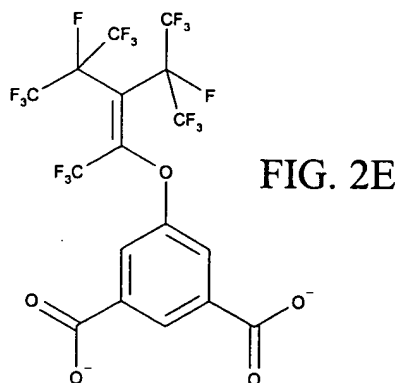


FIG. 2E

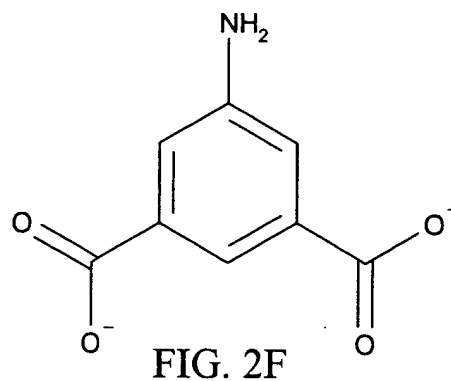


FIG. 2F

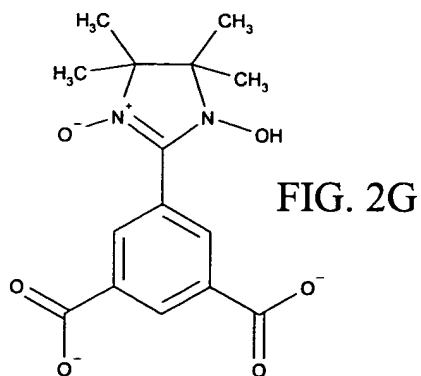


FIG. 2G

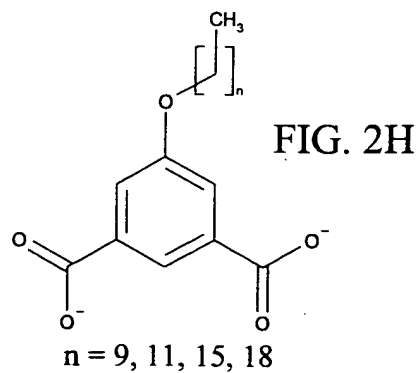


FIG. 2H

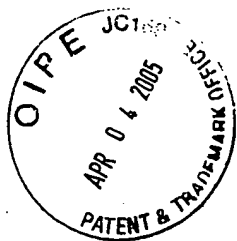


FIG. 2I

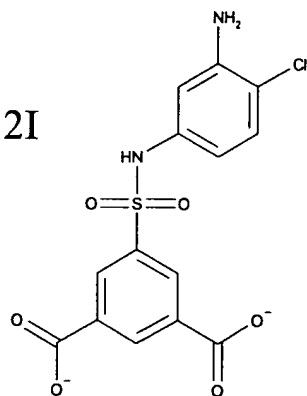


FIG. 2J

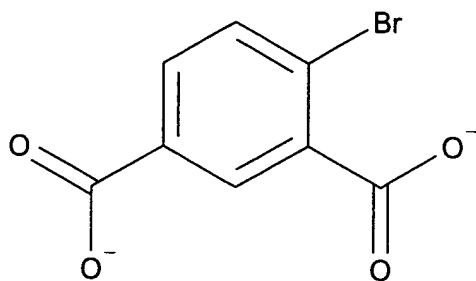
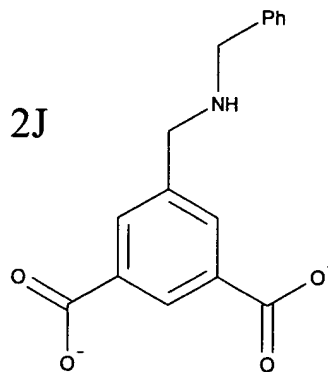


FIG. 2K

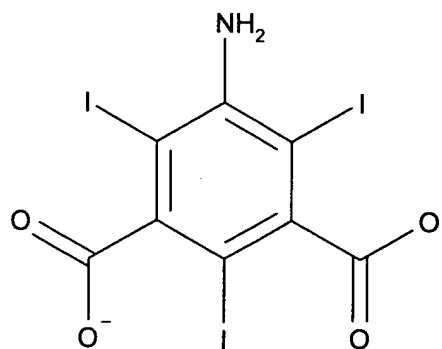


FIG. 2L

FIG. 2M

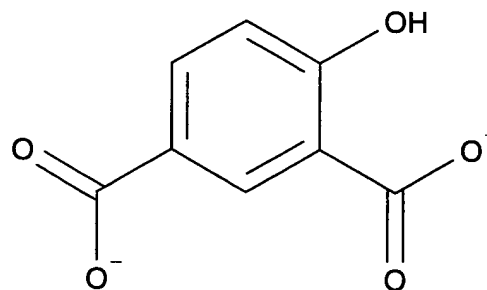
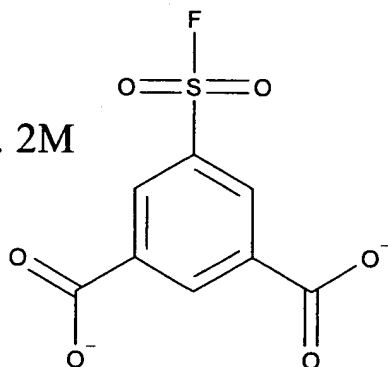


FIG. 2N

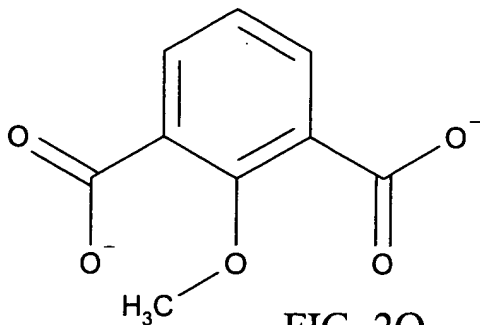


FIG. 2O

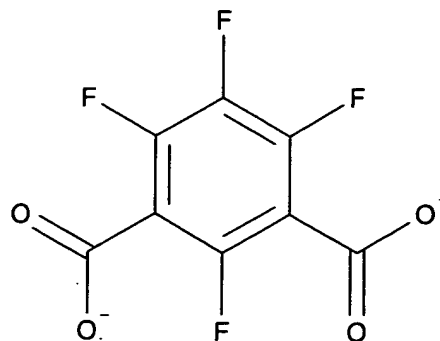
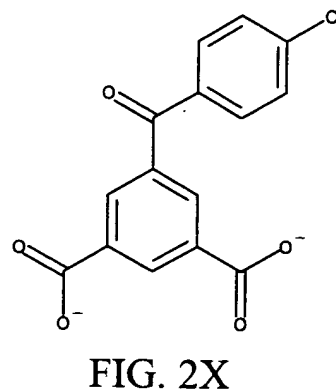
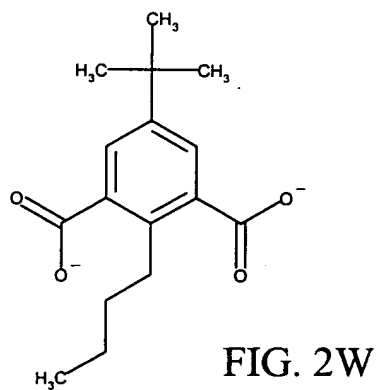
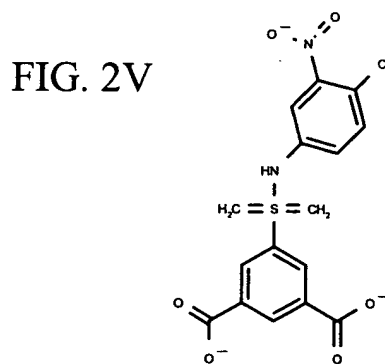
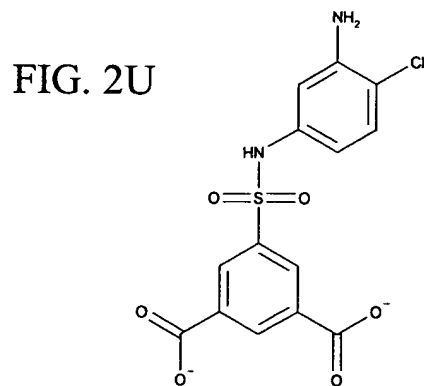
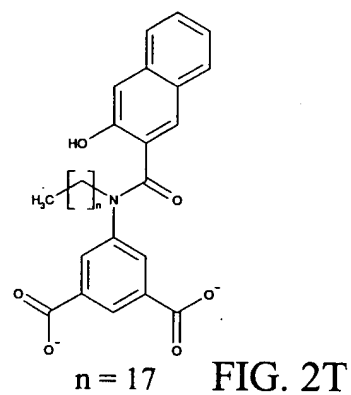
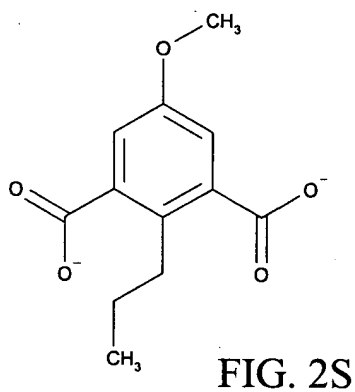
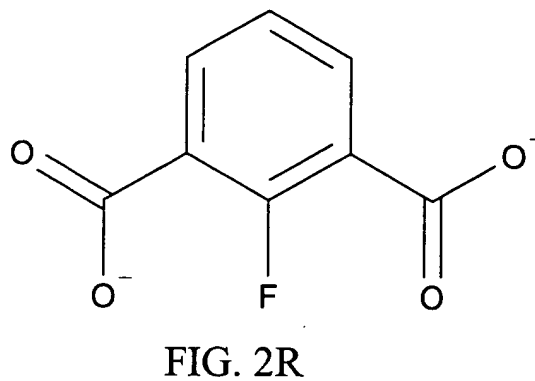
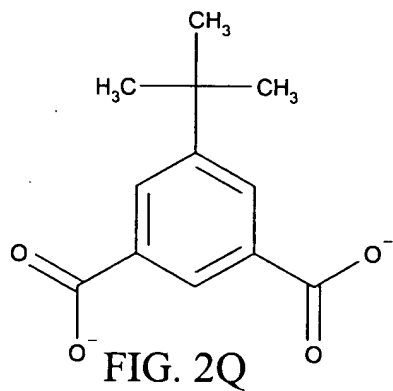
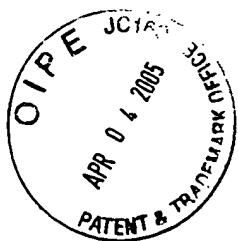


FIG. 2P



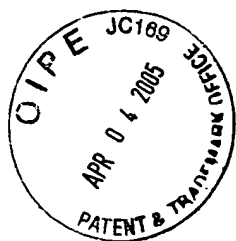


FIG. 2Y

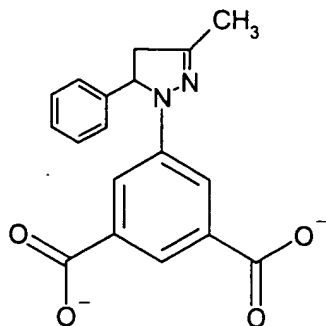


FIG. 2Z

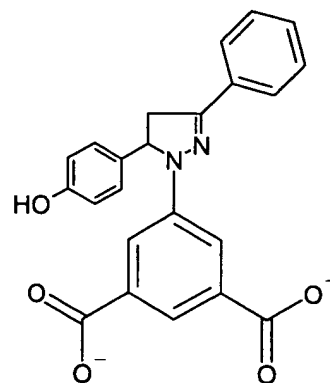


FIG. 2AA

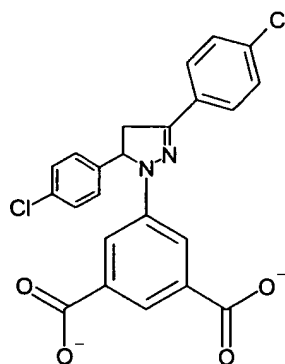


FIG. 2BB

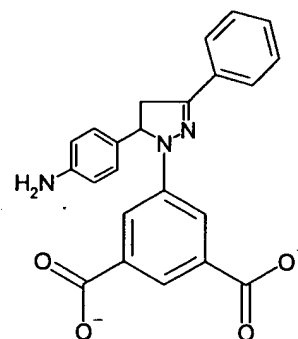


FIG. 2 CC

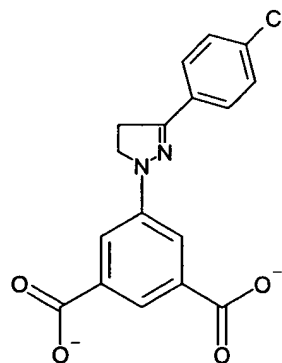


FIG.2 DD

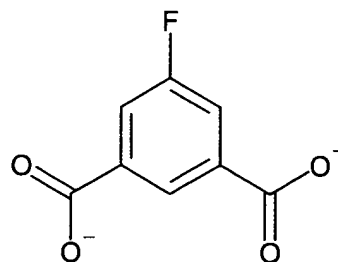


FIG. 2 EE

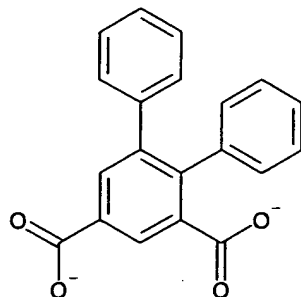
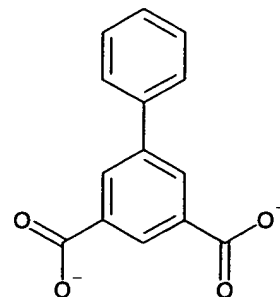


FIG. 2 FF



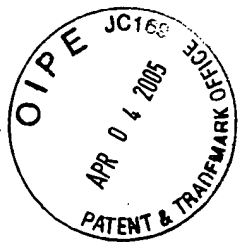


FIG. 2 GG

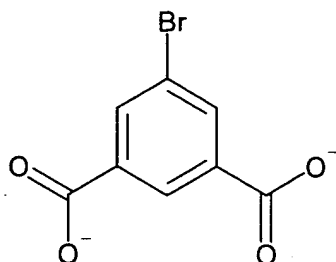


FIG. 2 HH

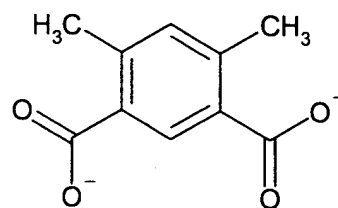


FIG. 2 II

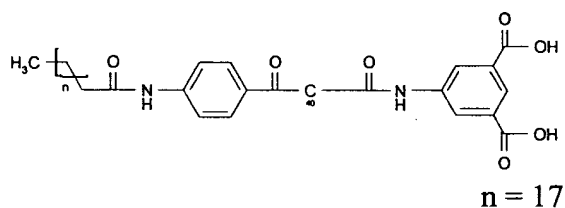
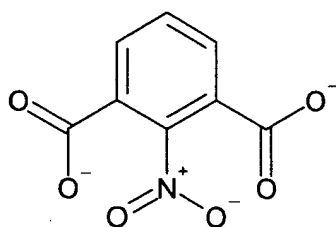


FIG. 2 JJ

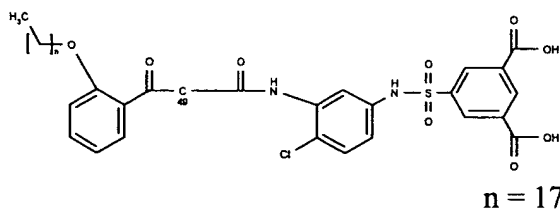


FIG. 2 KK

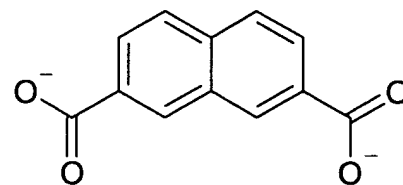


FIG. 2 LL

FIG. 2 MM

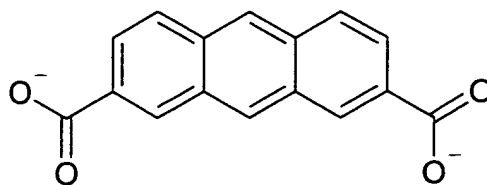
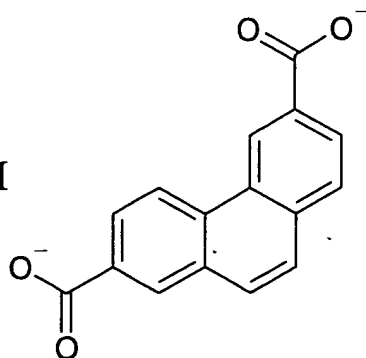


FIG. 2 NN

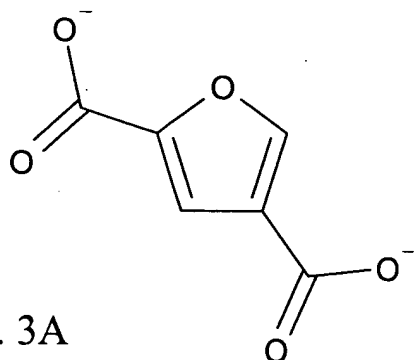


FIG. 3A

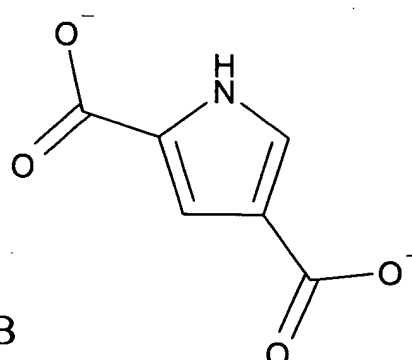


FIG. 3B

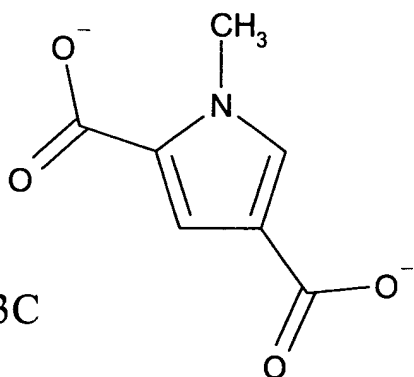


FIG. 3C

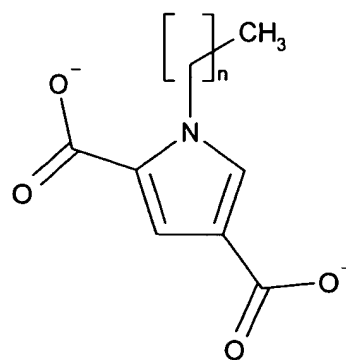


FIG. 3D

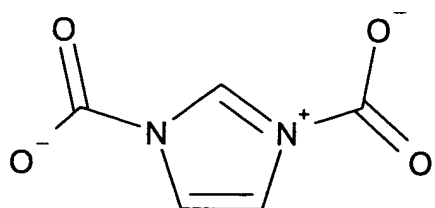


FIG. 3E

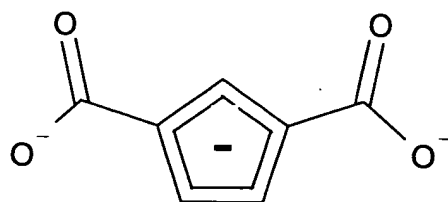


FIG. 3F

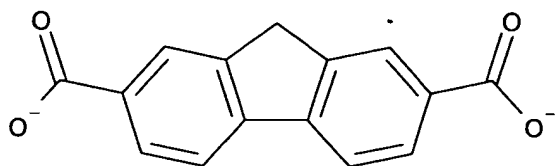
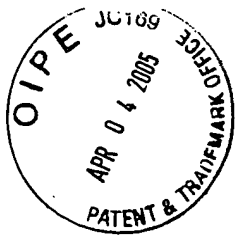


FIG. 3G



8/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

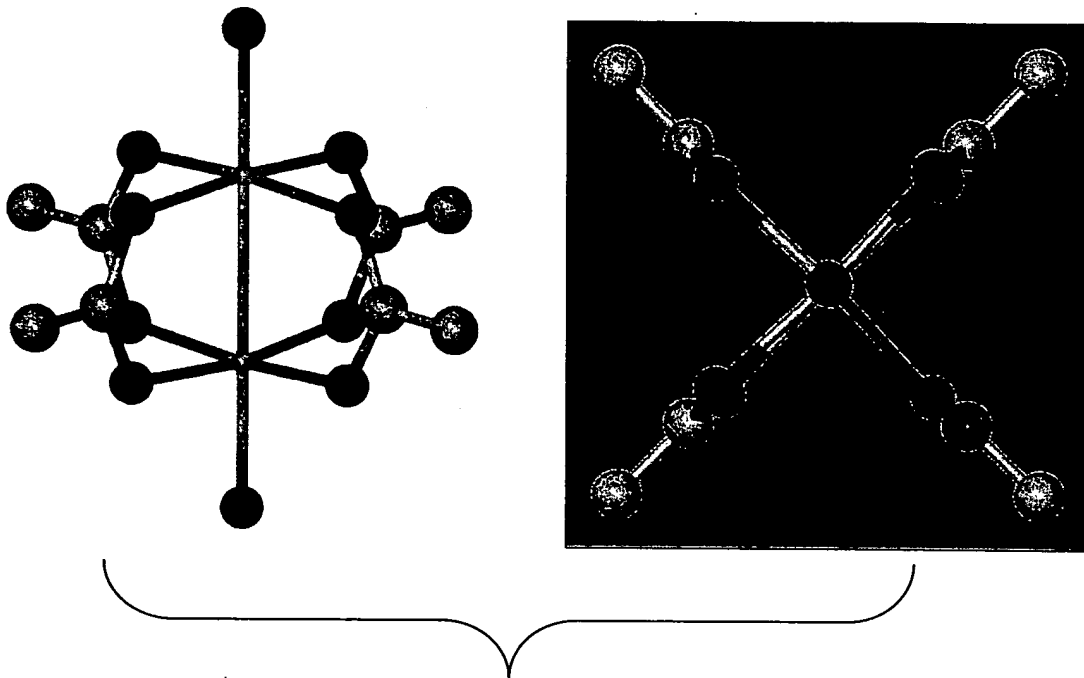


FIG. 4



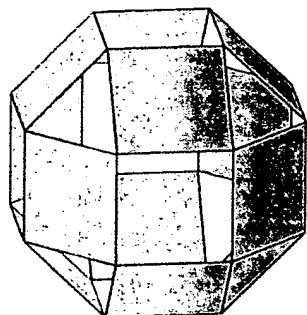
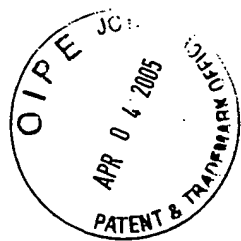


FIG. 5A

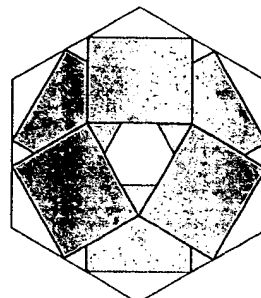


FIG. 5B

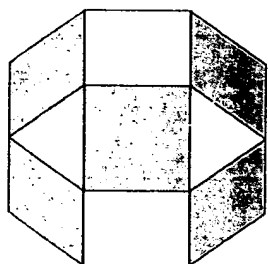


FIG. 5C

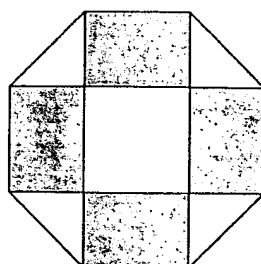


FIG. 5D

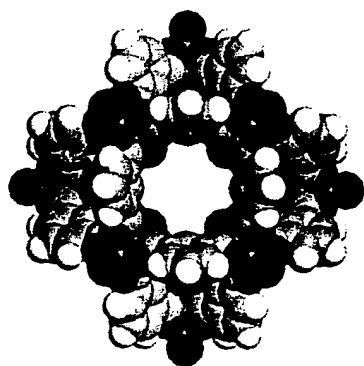


FIG. 5E

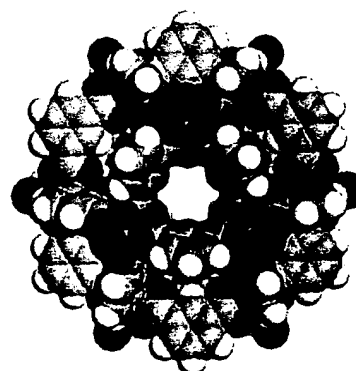


FIG. 5F

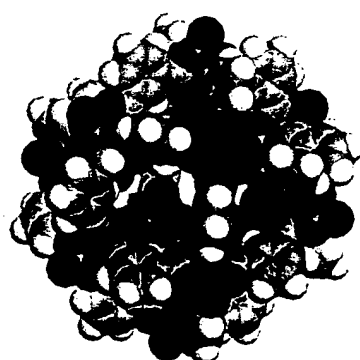


FIG. 5G

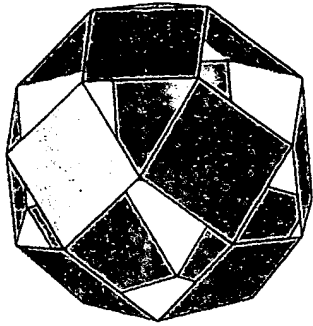
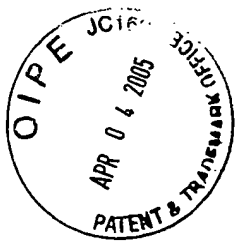


FIG. 6A

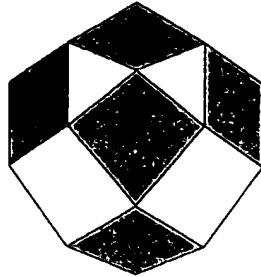


FIG. 6B

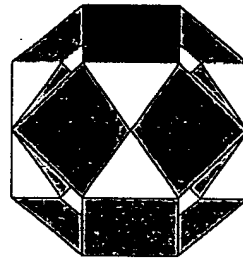


FIG. 6C

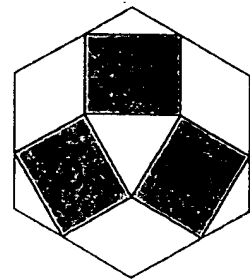


FIG. 6D

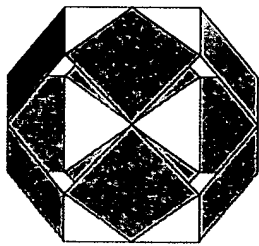


FIG. 6E

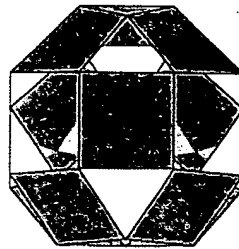


FIG. 6F

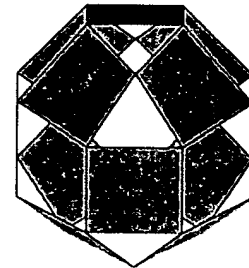


FIG. 6G

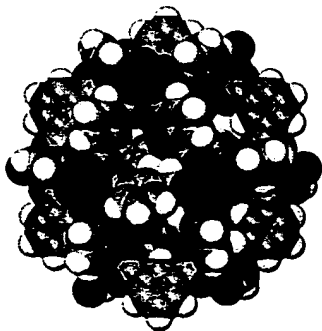


FIG. 6H

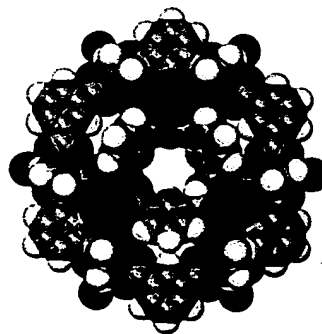


FIG. 6I

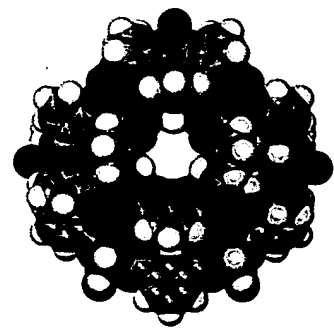


FIG. 6J

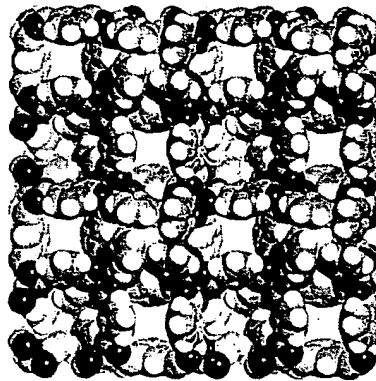
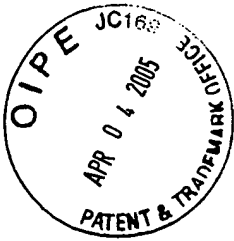


FIG. 7A

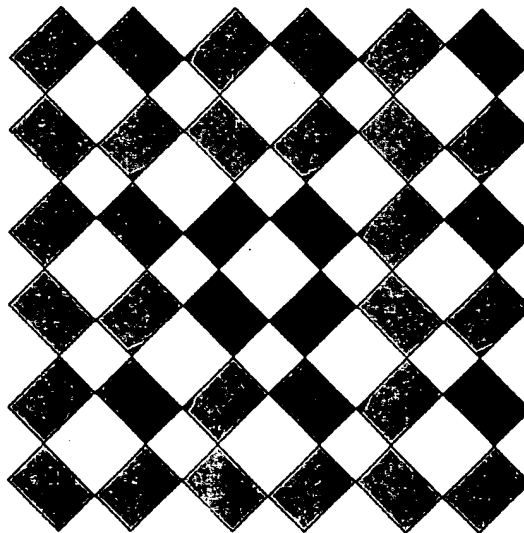


FIG. 7B

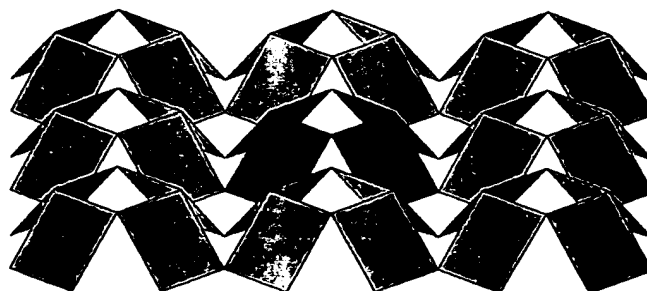
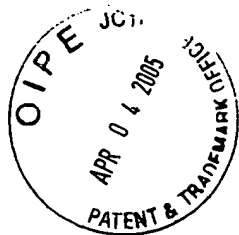


FIG. 7C



12/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

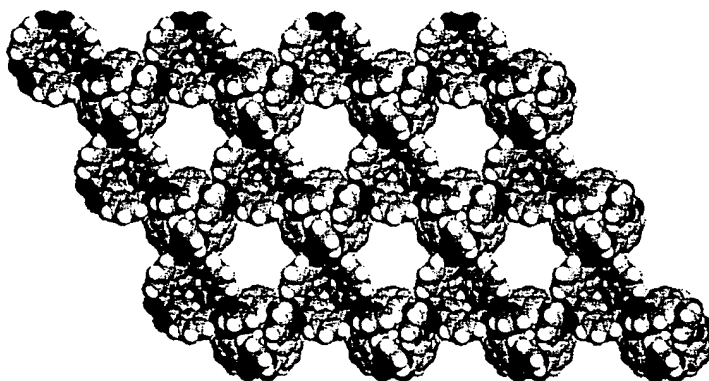


FIG.8A

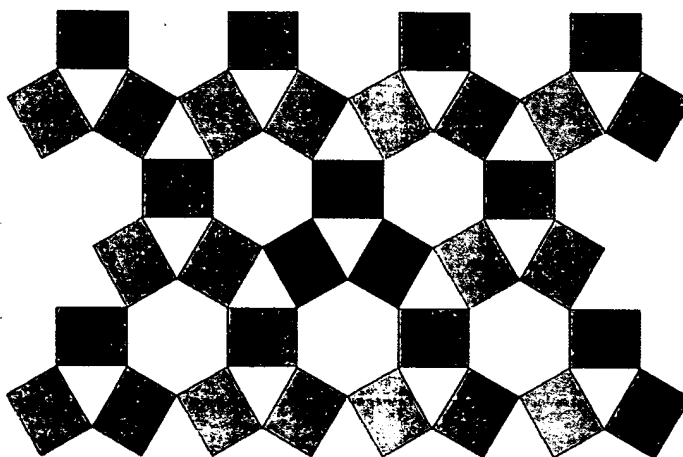


FIG.8B

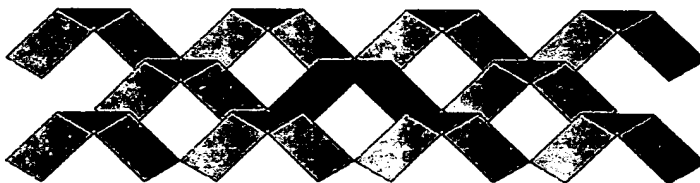


FIG.8C

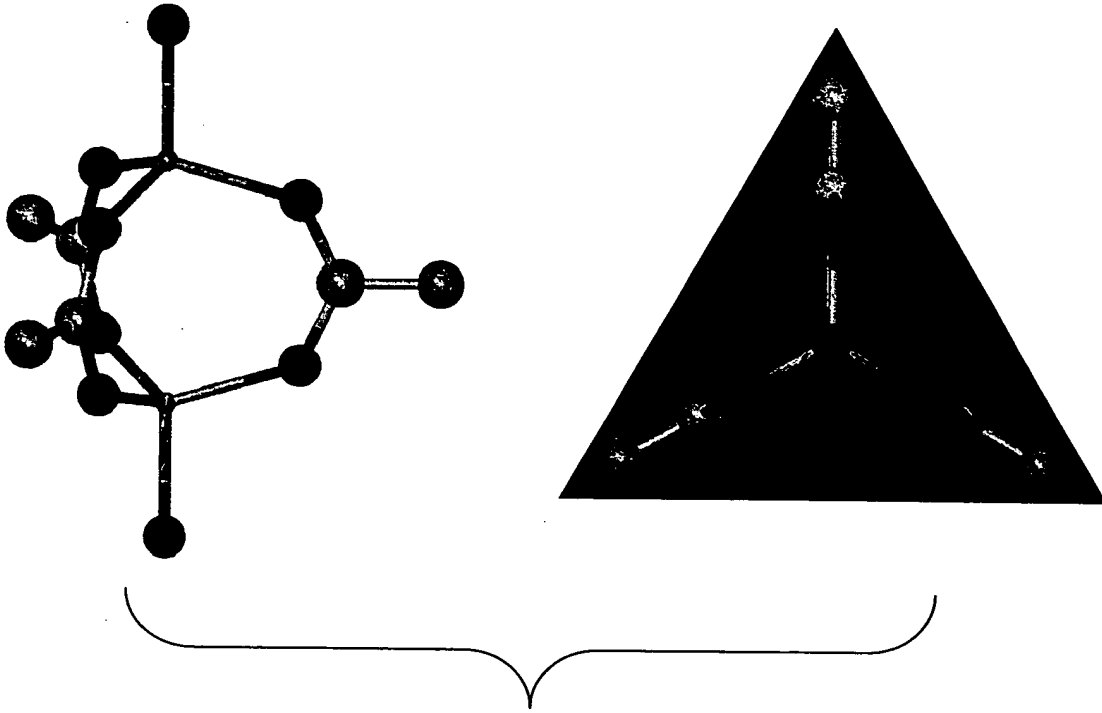


FIG. 9

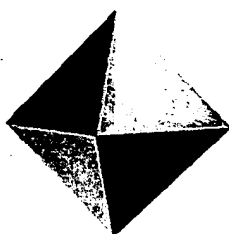
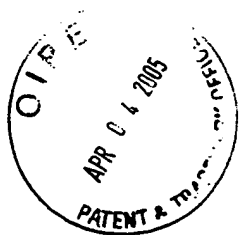


FIG. 10A

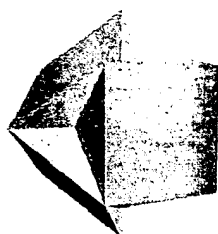


FIG. 10B



FIG. 10C

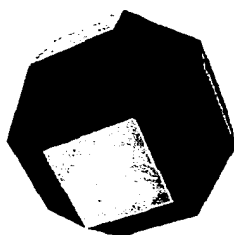


FIG. 10D

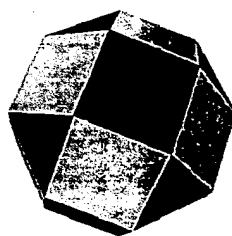


FIG. 10E

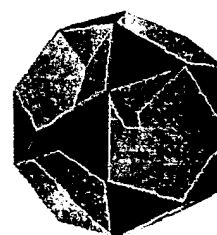


FIG. 10F

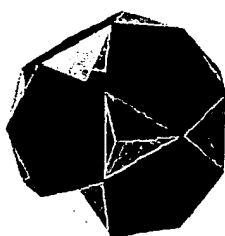


FIG. 10G

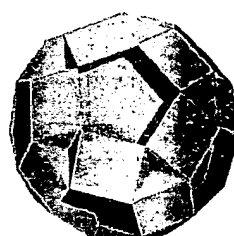


FIG. 10H

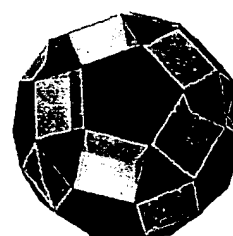


FIG. 10I

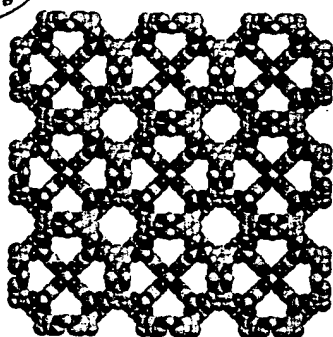
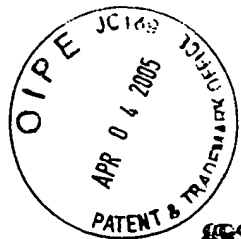


FIG. 11A

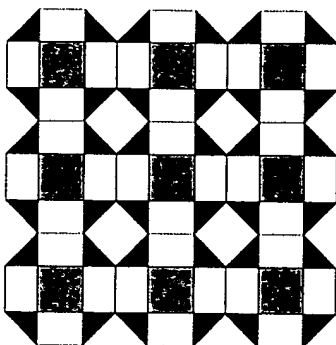


FIG. 11B

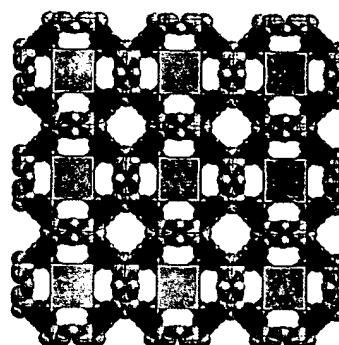


FIG. 11C

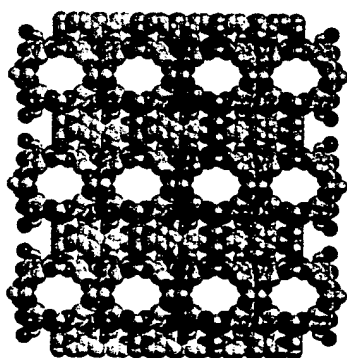


FIG. 11D

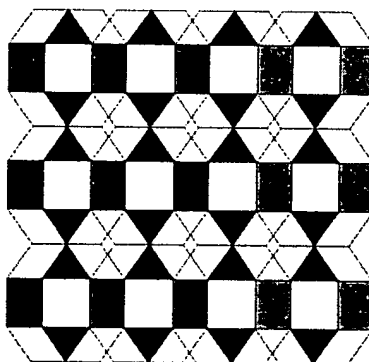


FIG. 11E

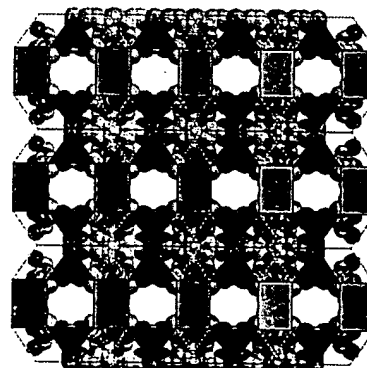


FIG. 11F

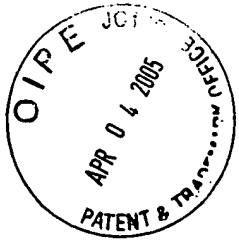


FIG. 12A

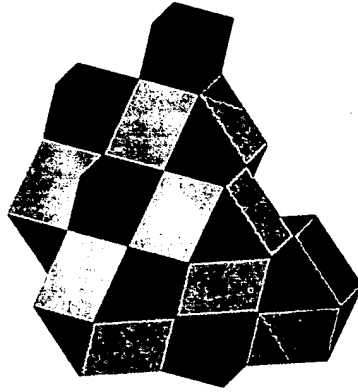


FIG. 12B

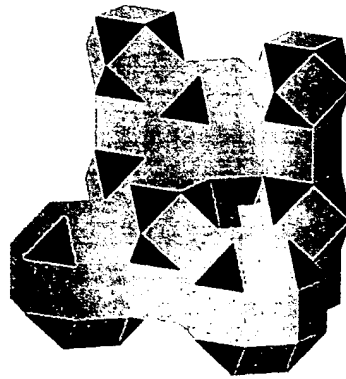
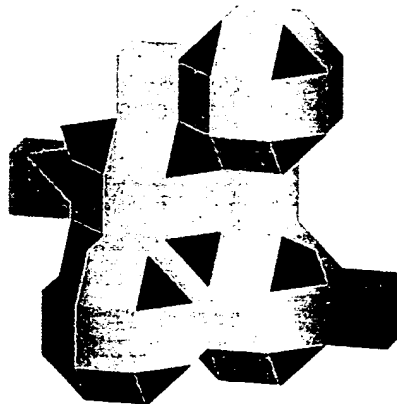


FIG. 12C





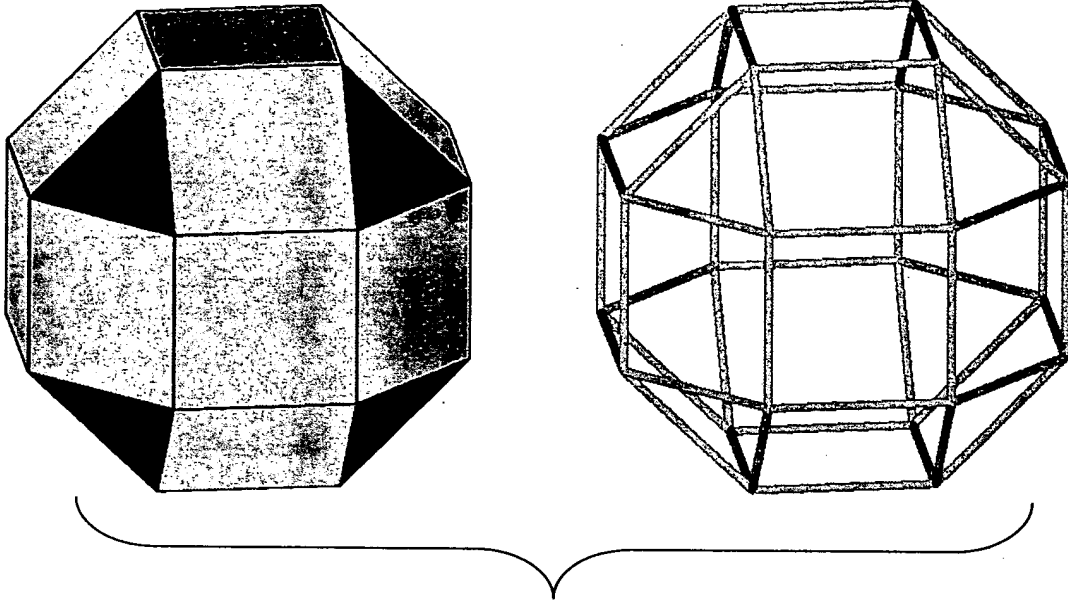
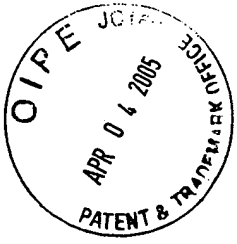


FIG. 13A

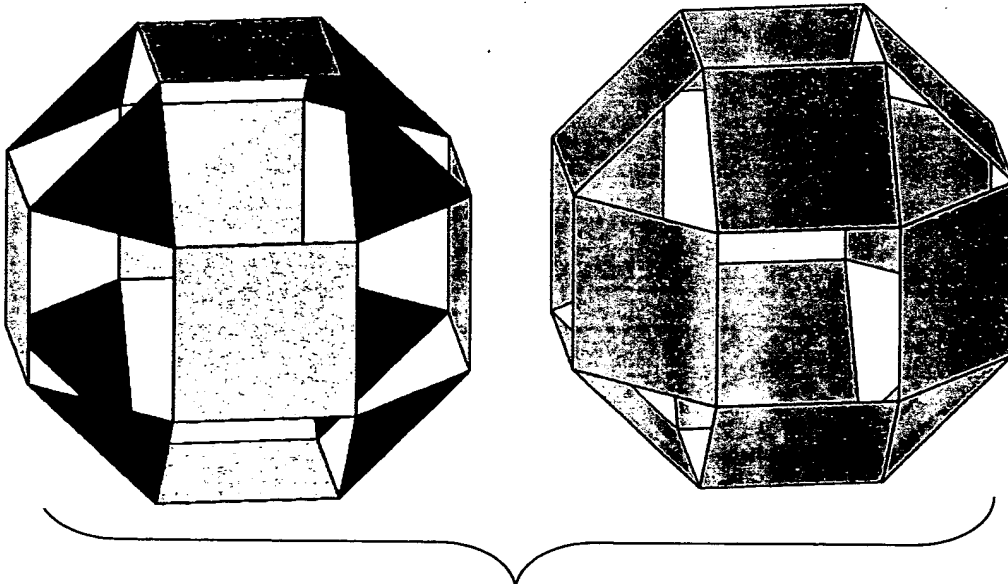


FIG. 13B

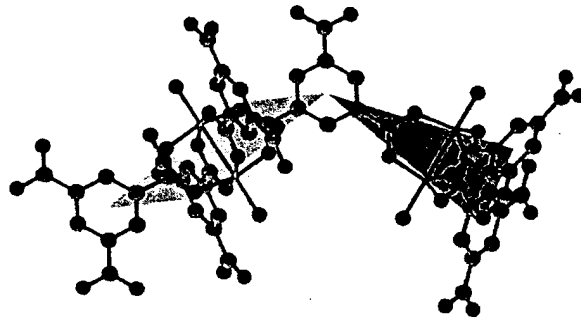
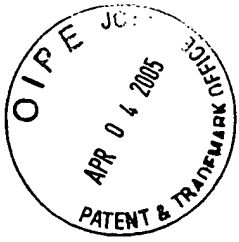


FIG. 14A

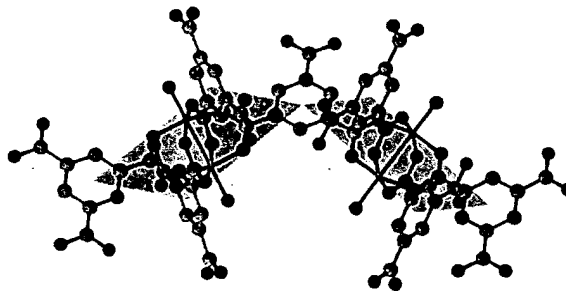


FIG. 14B

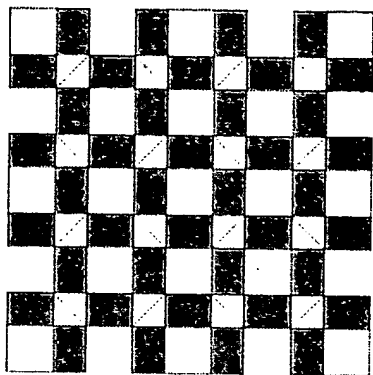
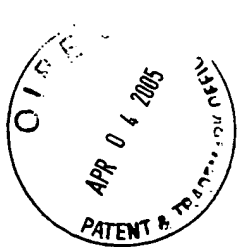


FIG. 15A

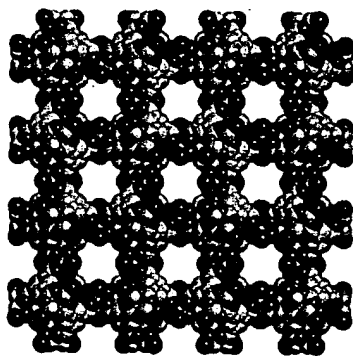


FIG. 15B

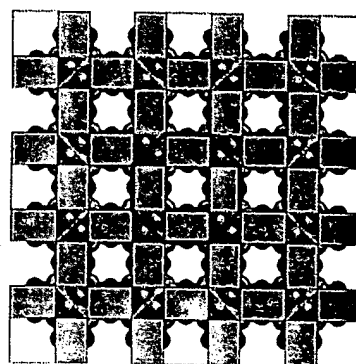


FIG. 15C

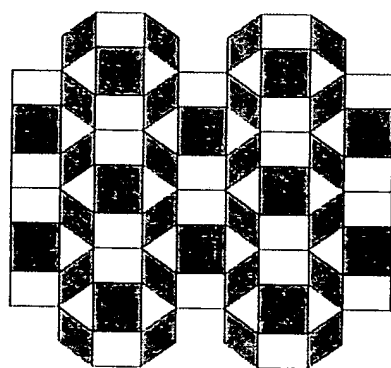


FIG. 15D

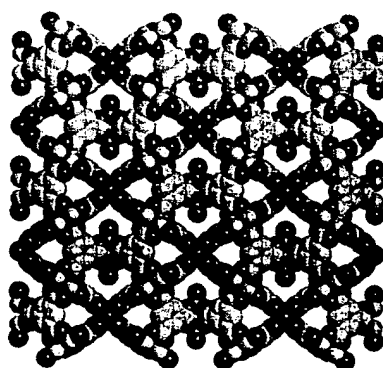


FIG. 15E

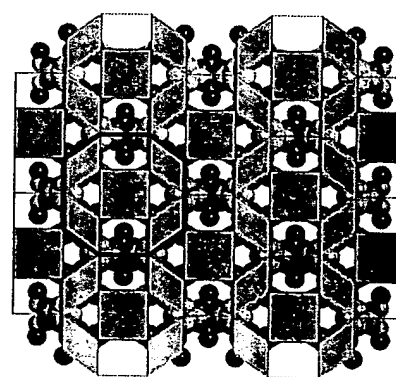


FIG. 15F

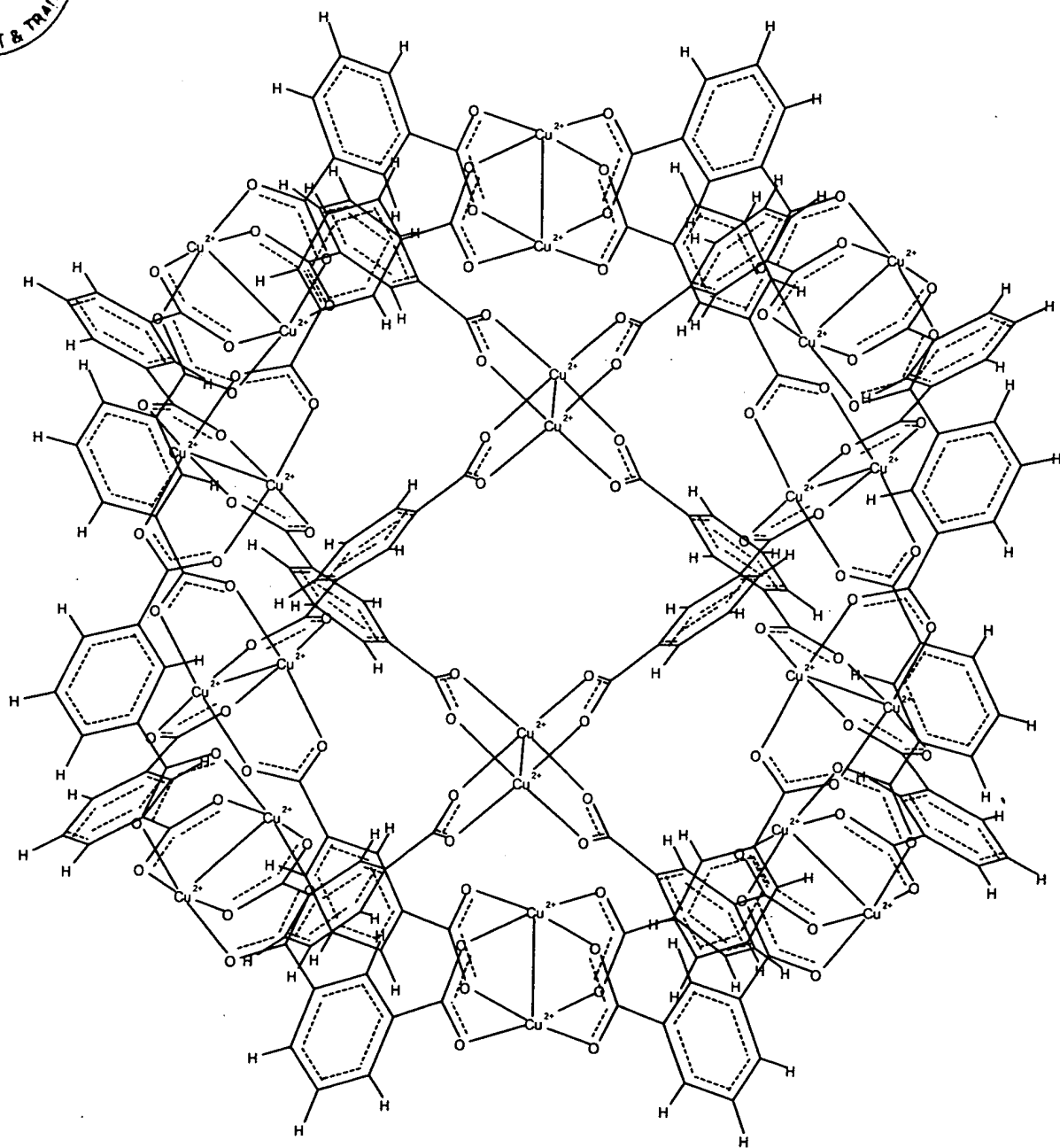
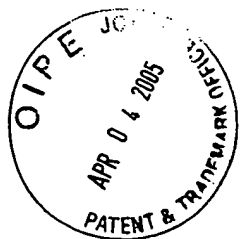


FIG. 16

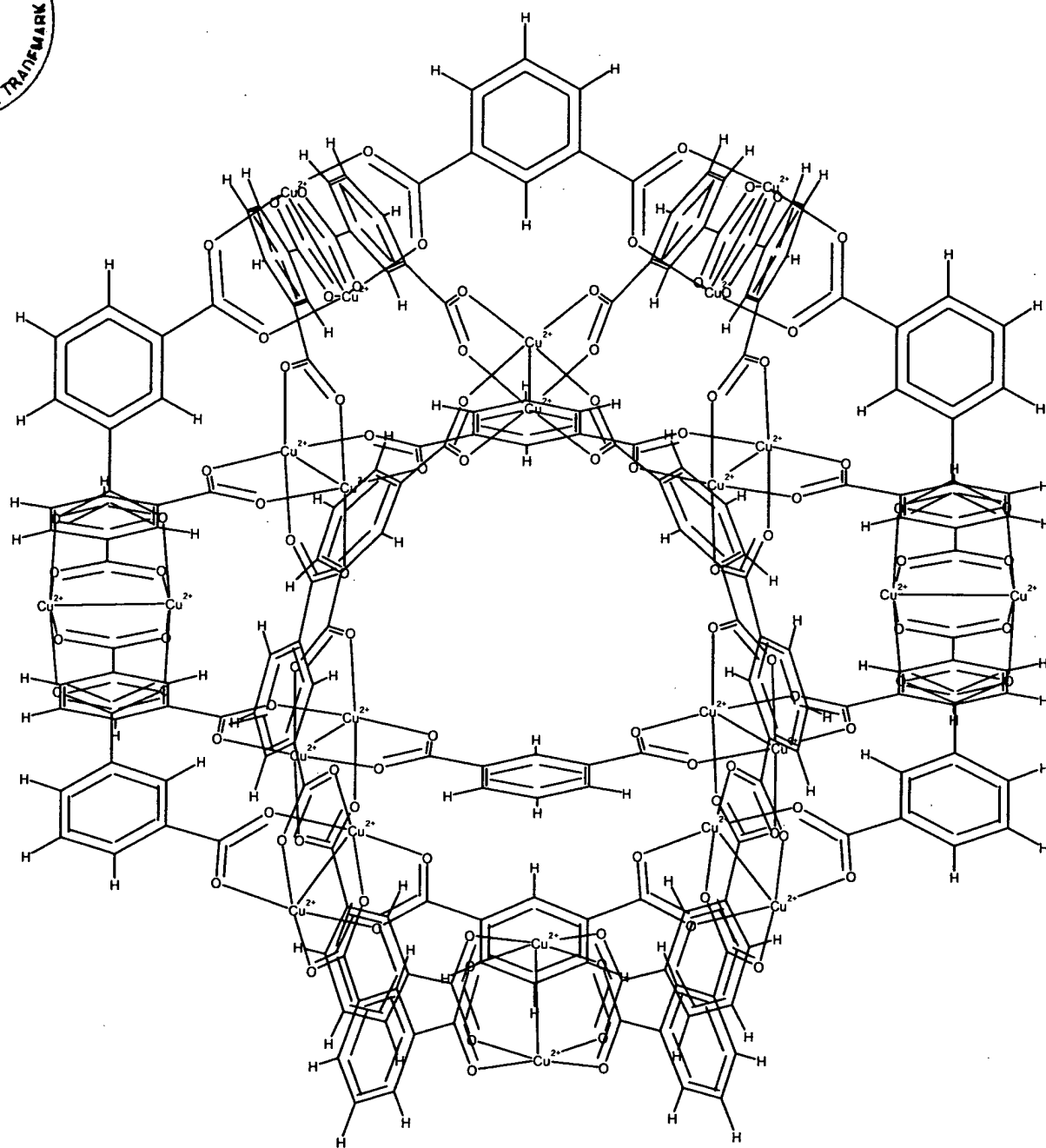
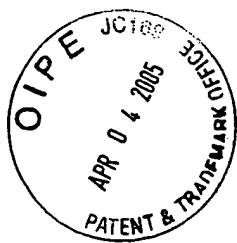


FIG. 17

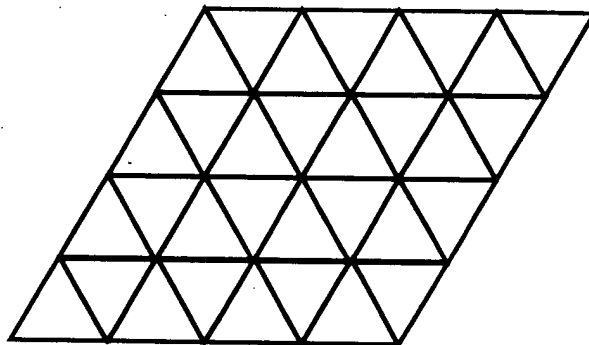
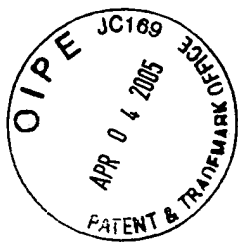


FIG. 18A

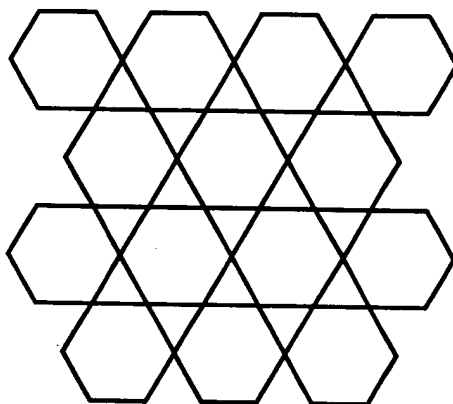


FIG. 18B

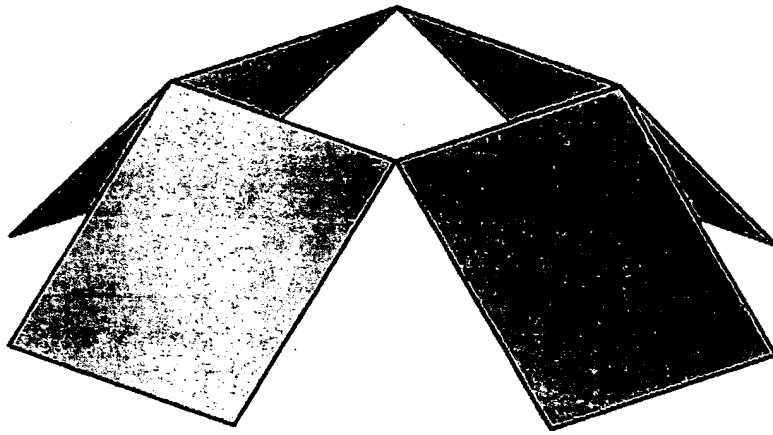
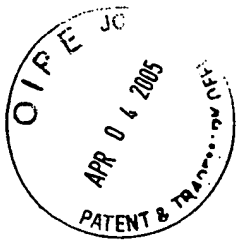


FIG. 19A

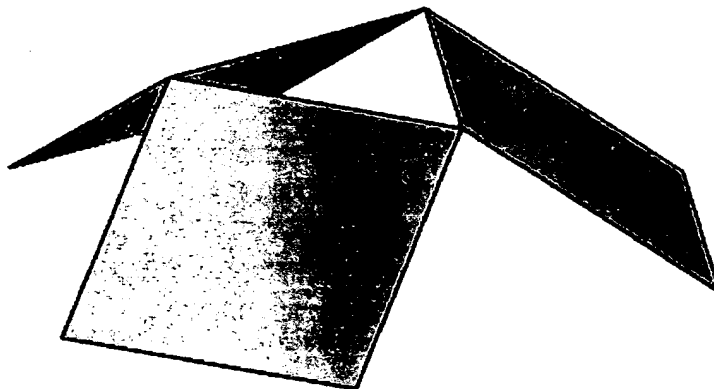
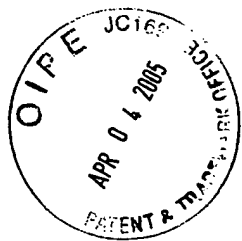


FIG. 19B



23/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

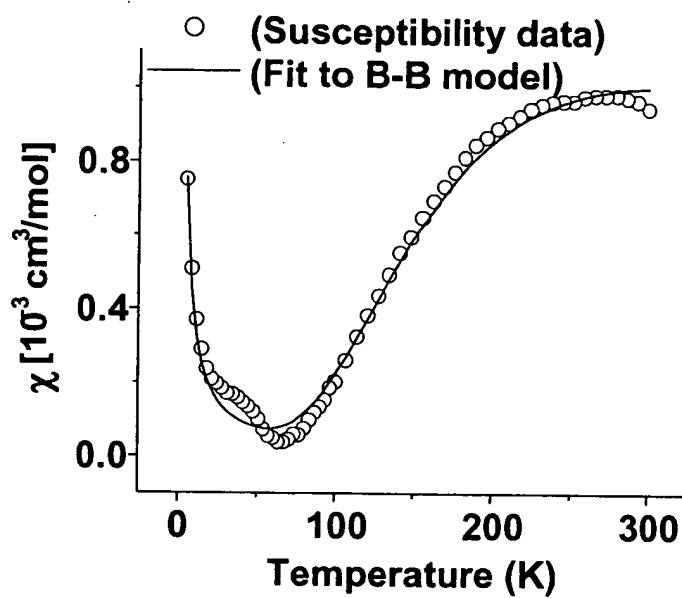


FIG. 20A

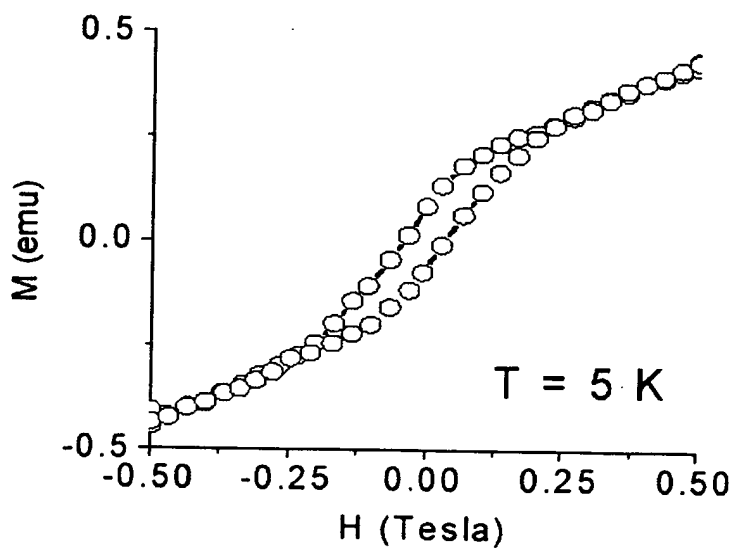


FIG. 20B



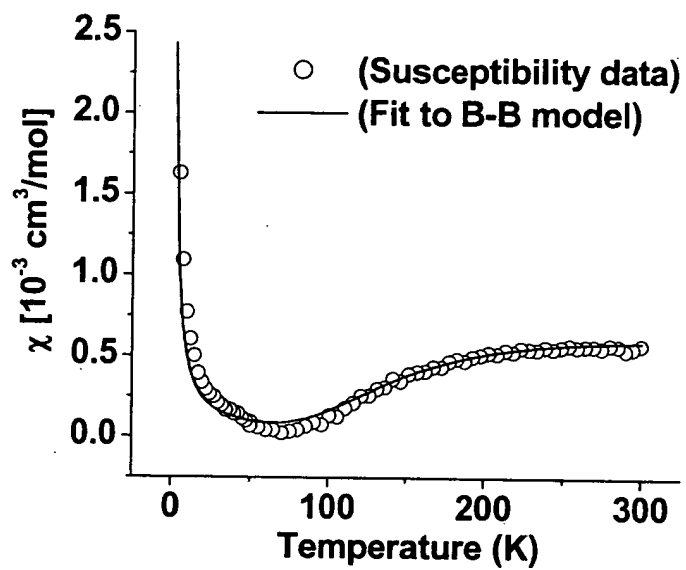
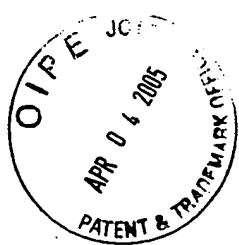


FIG. 21A

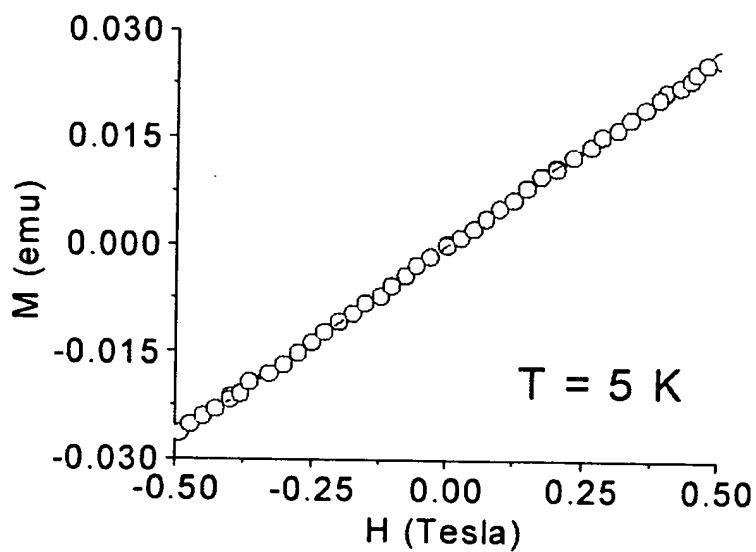


FIG. 21B

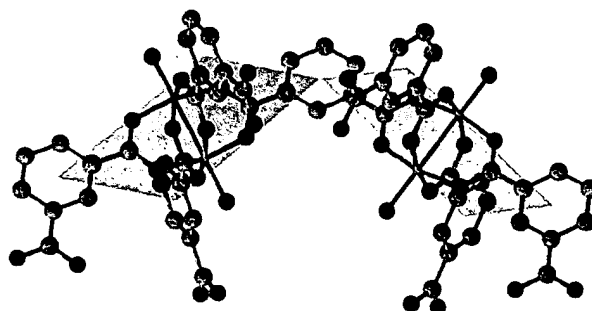
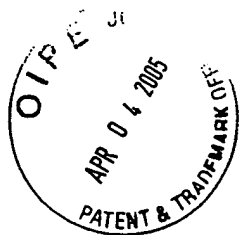


FIG. 22

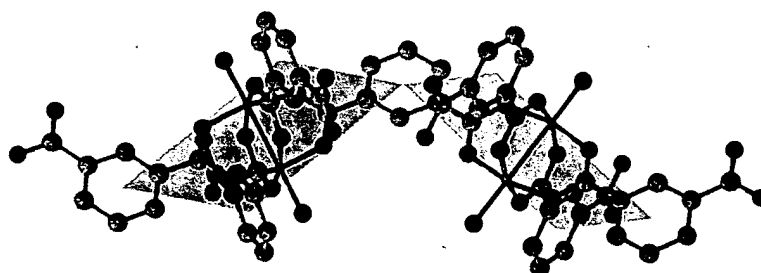


FIG. 23

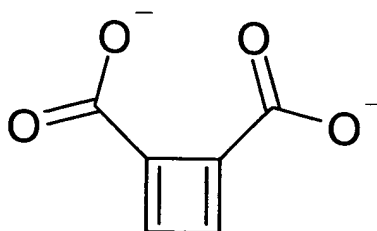
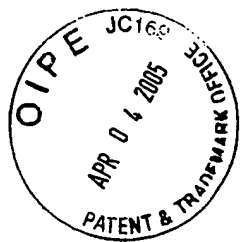
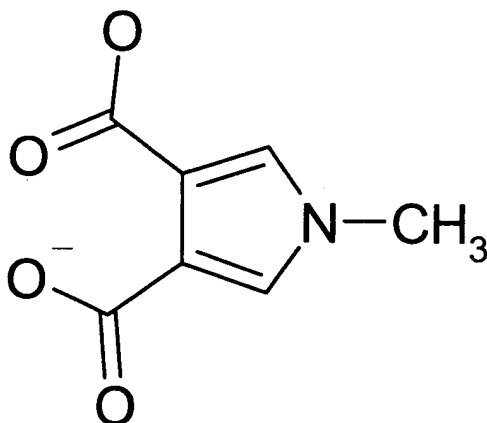


FIG. 24A



Actually 72°, but can sustain distortion to 90° (proven by molecular modelling experiments)

FIG. 24B

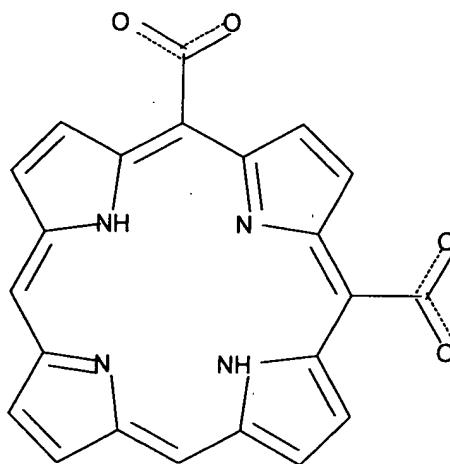
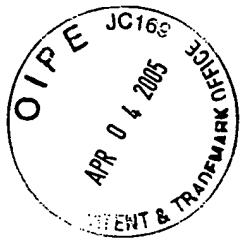


FIG. 24C



27/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

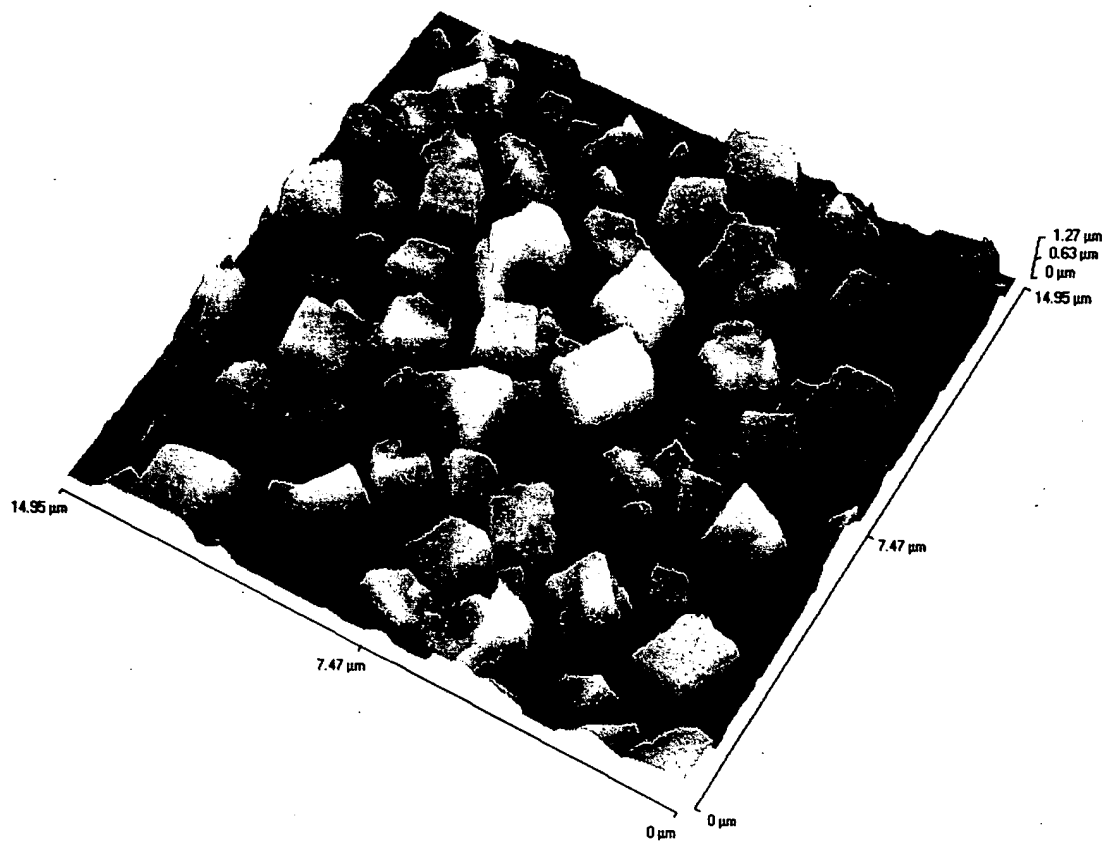
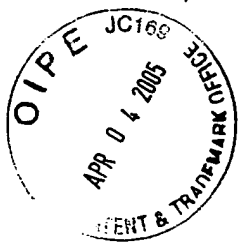


FIG. 25



10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

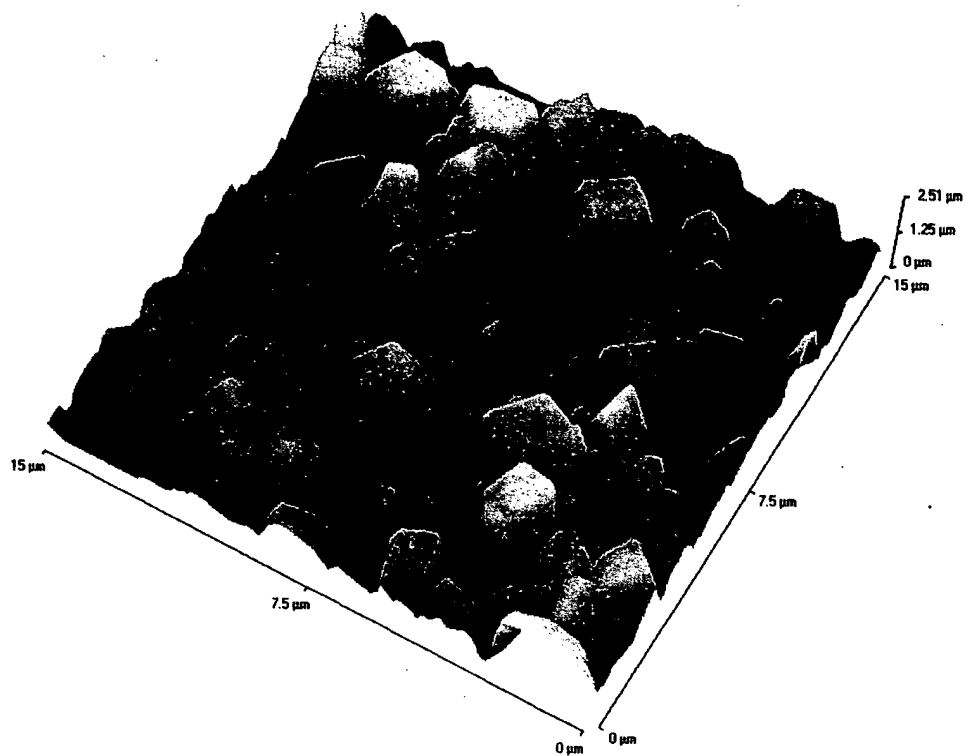


FIG. 26

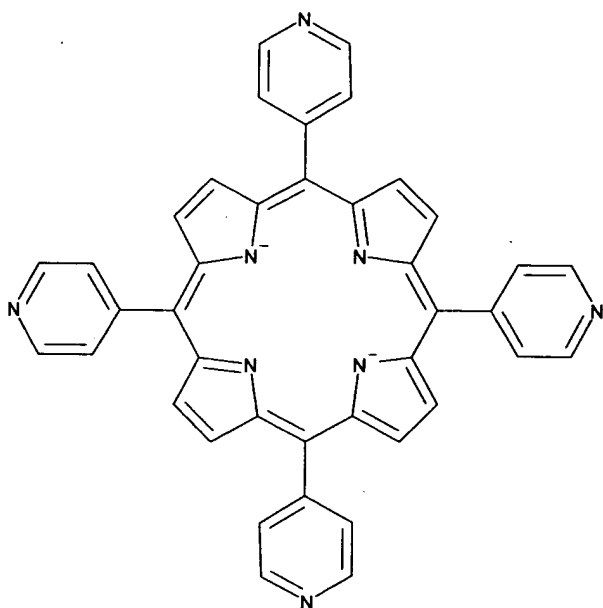
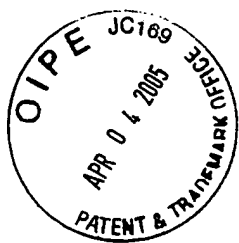


FIG. 27

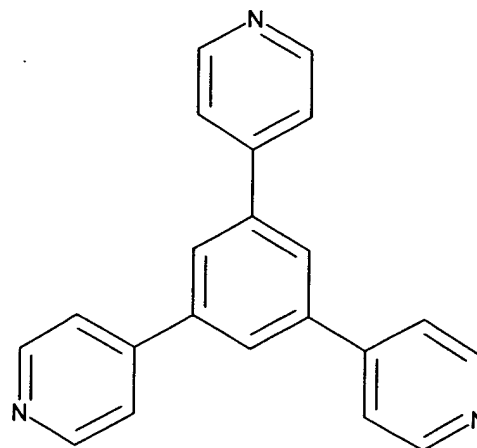


FIG. 28

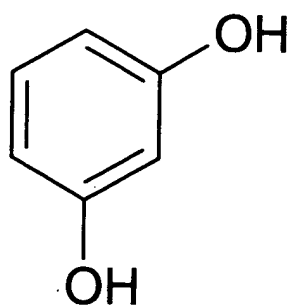
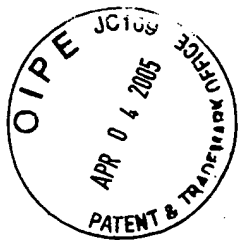


FIG. 29



10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

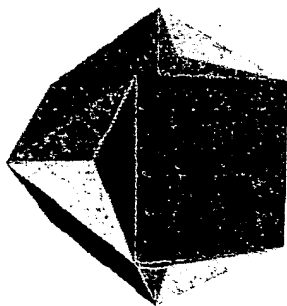


FIG. 1A

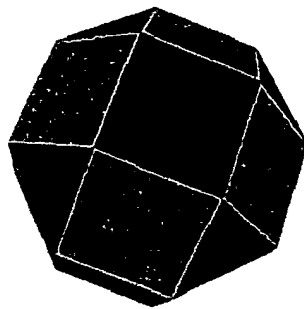


FIG. 1B

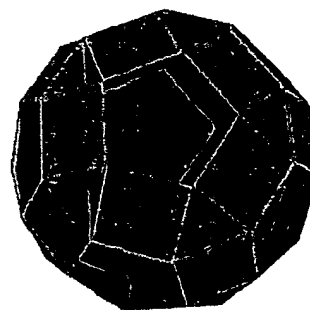


FIG. 1C

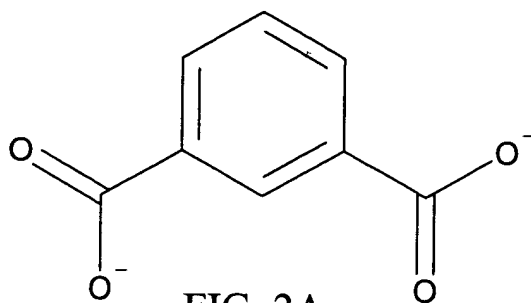


FIG. 2A

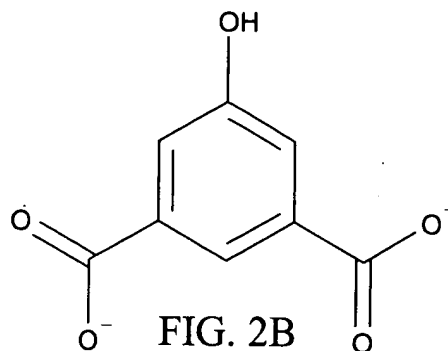


FIG. 2B

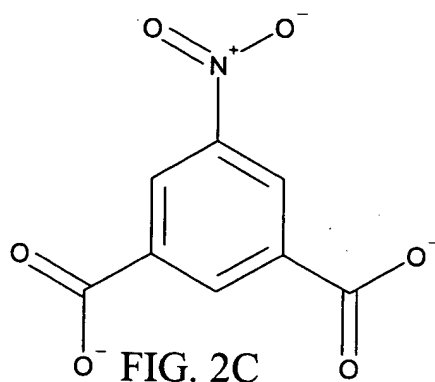


FIG. 2C

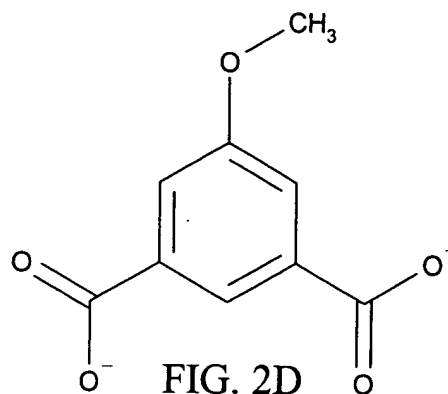


FIG. 2D

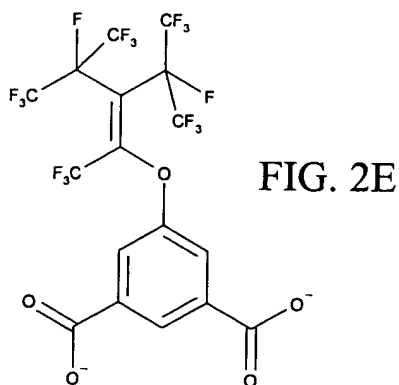


FIG. 2E

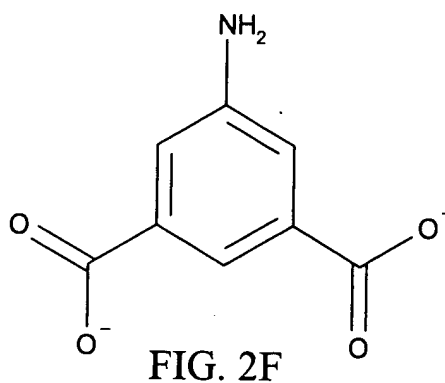


FIG. 2F

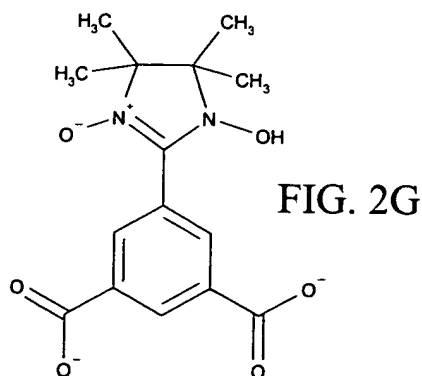


FIG. 2G

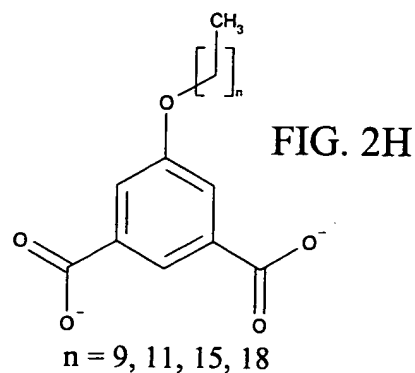


FIG. 2H



FIG. 2I

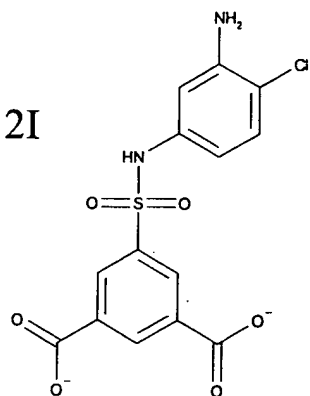


FIG. 2J

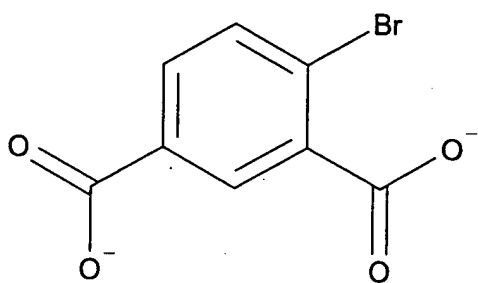
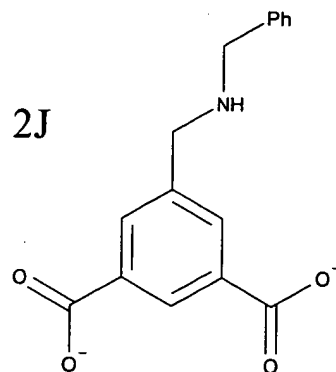


FIG. 2K

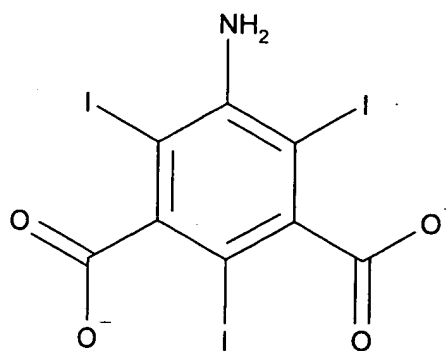


FIG. 2L

FIG. 2M

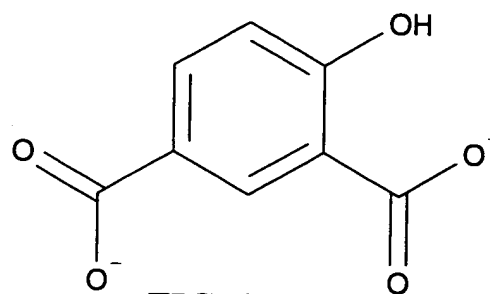
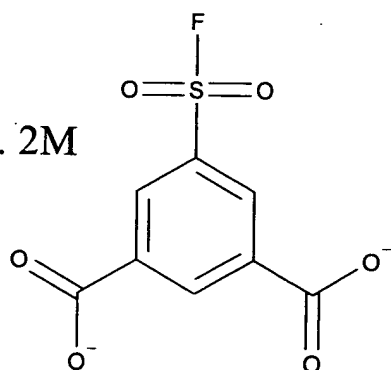


FIG. 2N

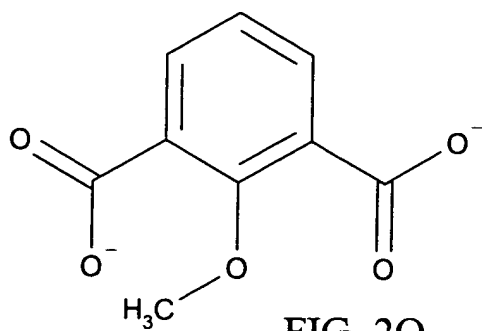


FIG. 2O

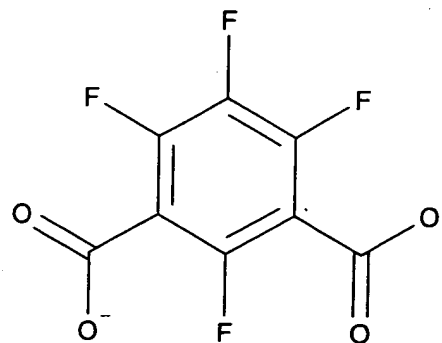


FIG. 2P

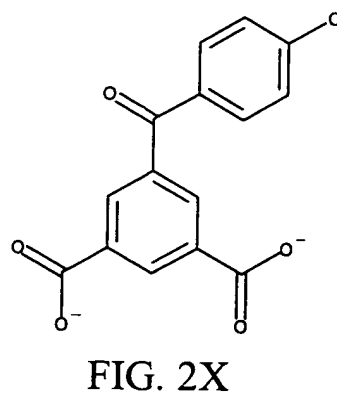
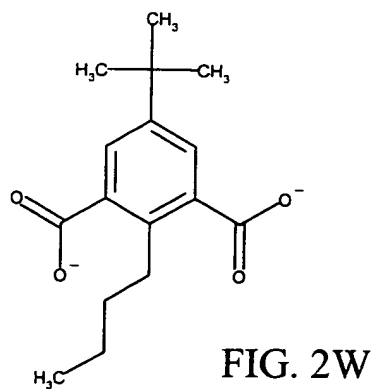
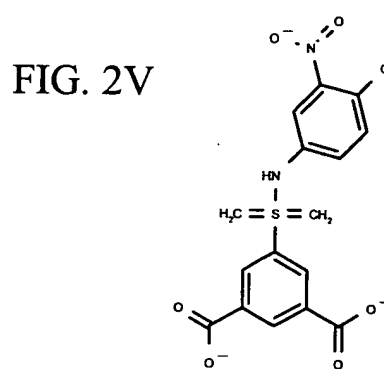
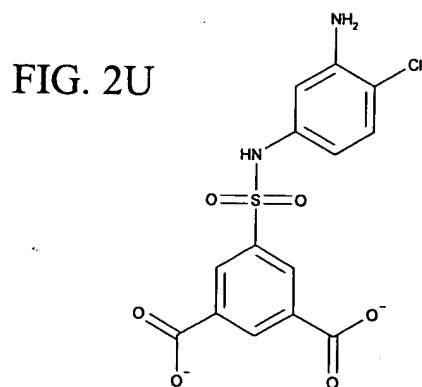
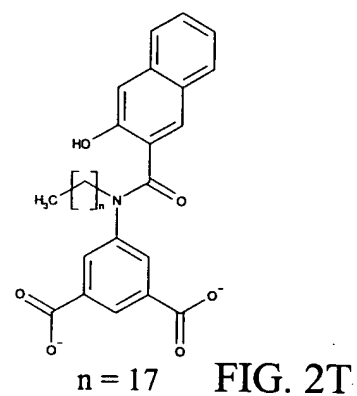
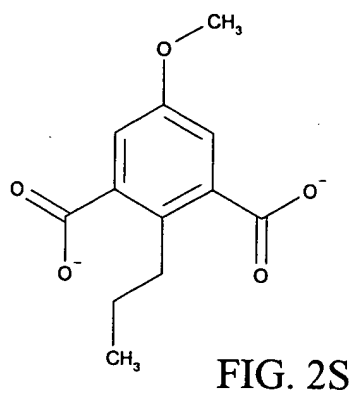
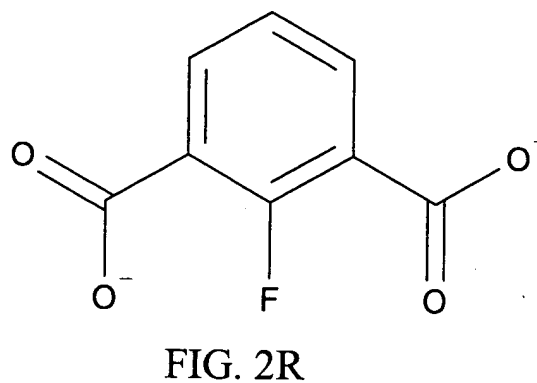
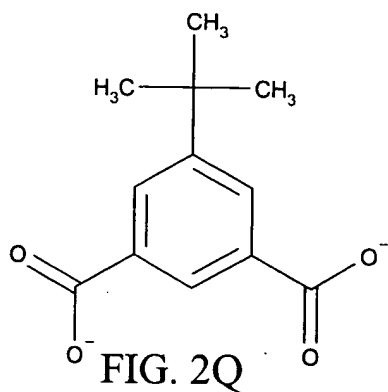


FIG. 2Y

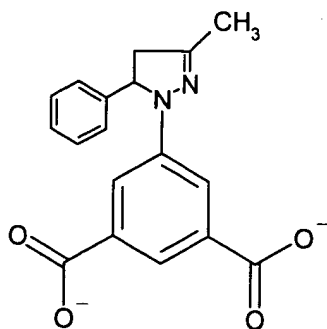


FIG. 2Z

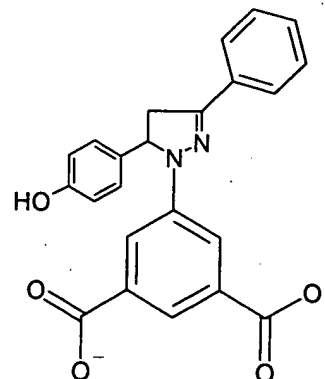


FIG. 2AA

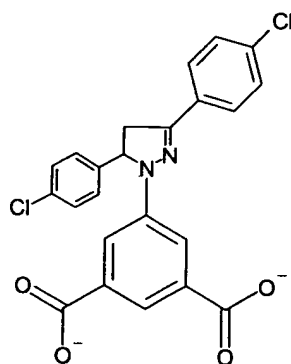


FIG. 2BB

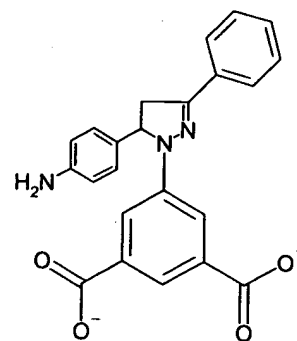


FIG. 2 CC

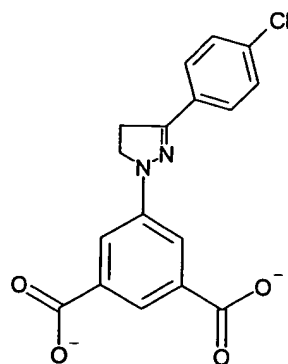


FIG. 2 DD

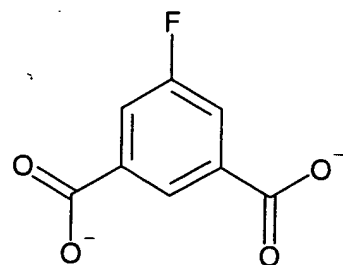


FIG. 2 EE

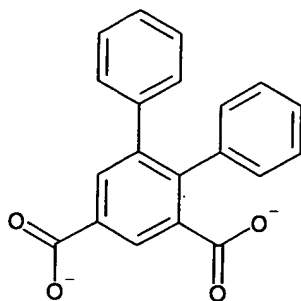
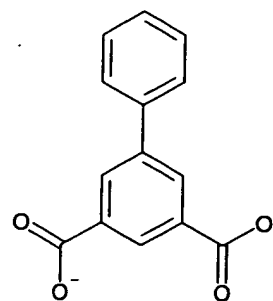


FIG. 2 FF



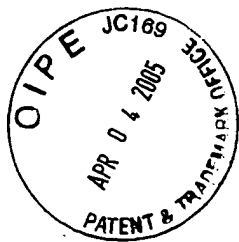


FIG. 2 GG

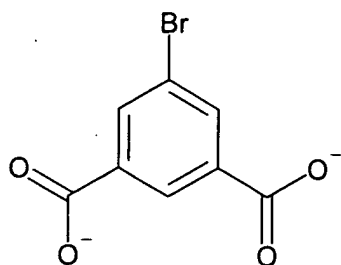


FIG. 2 HH

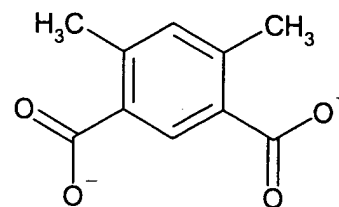


FIG. 2 II

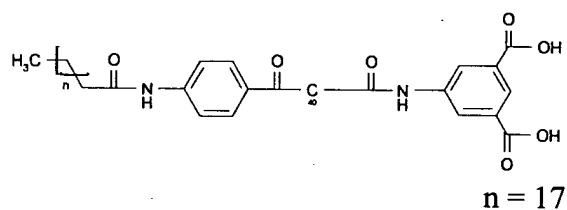
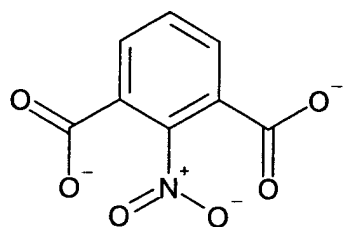


FIG. 2 JJ

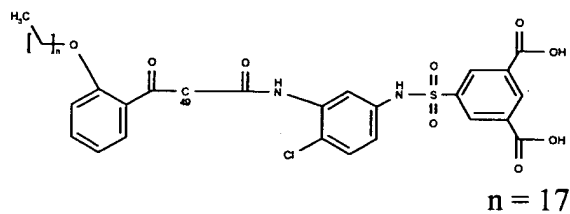


FIG. 2 KK

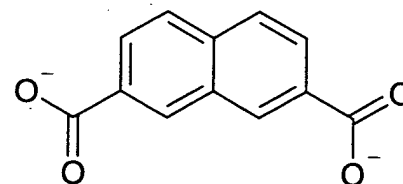


FIG. 2 LL

FIG. 2 MM

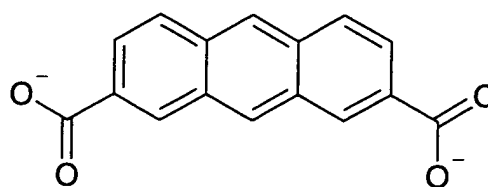
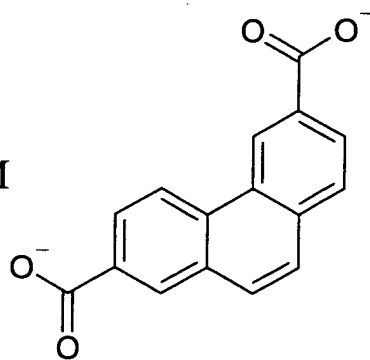


FIG. 2 NN

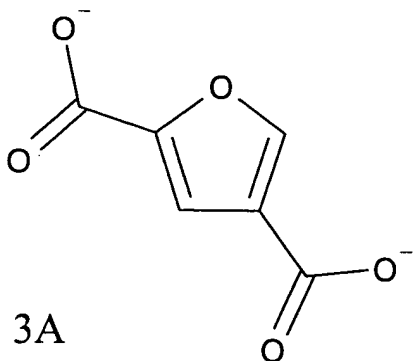


FIG. 3A

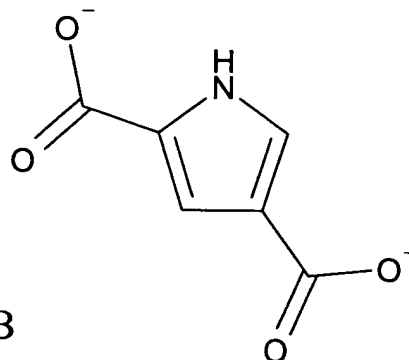


FIG. 3B

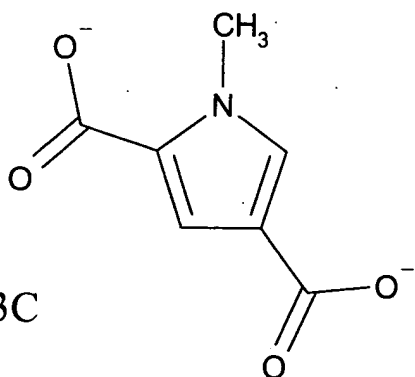


FIG. 3C

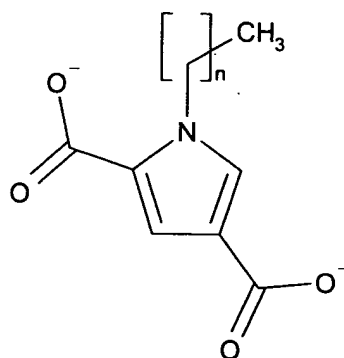


FIG. 3D

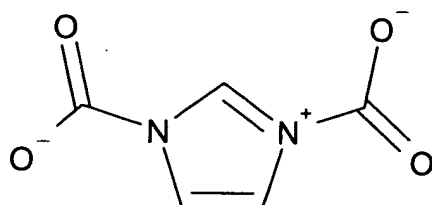


FIG. 3E

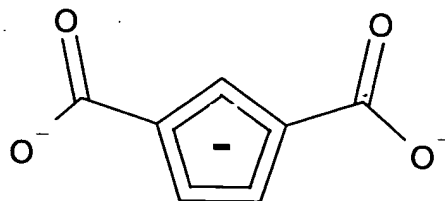


FIG. 3F

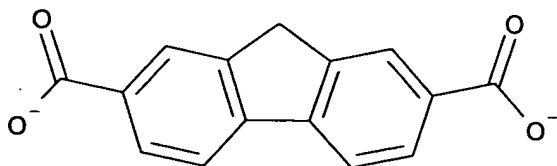
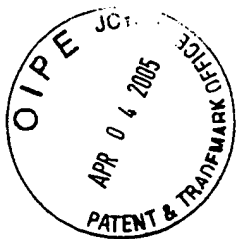


FIG. 3G



8/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

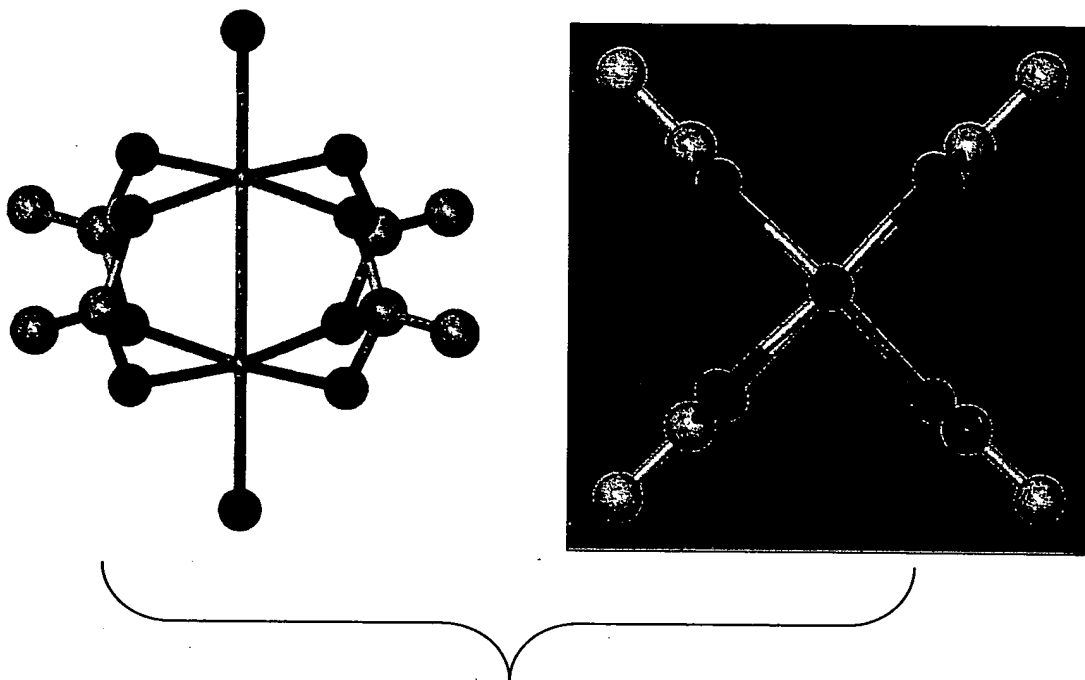


FIG. 4

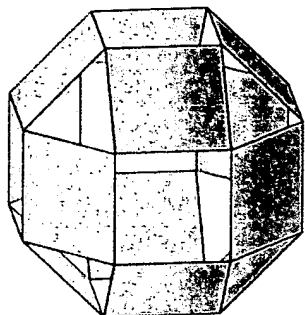
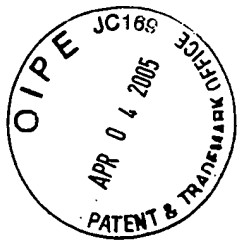


FIG. 5A

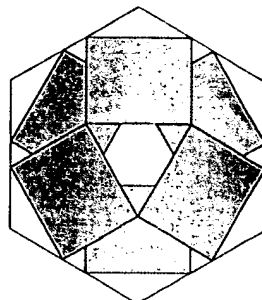


FIG. 5B

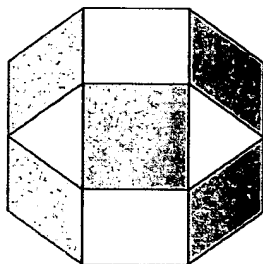


FIG. 5C

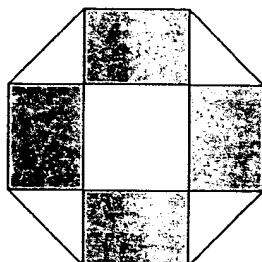


FIG. 5D

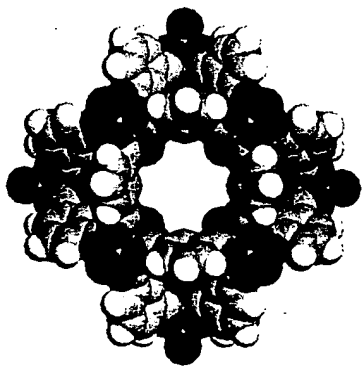


FIG. 5E

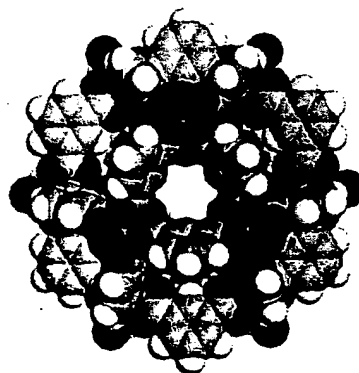


FIG. 5F

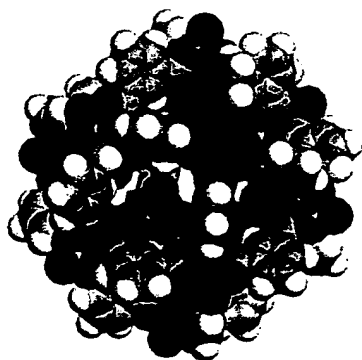
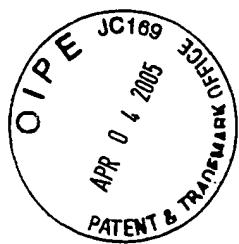


FIG. 5G



10/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

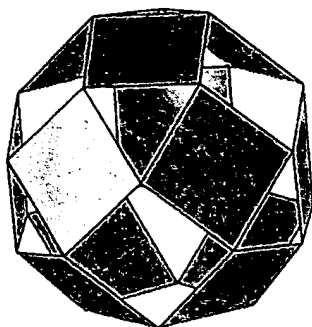


FIG. 6A

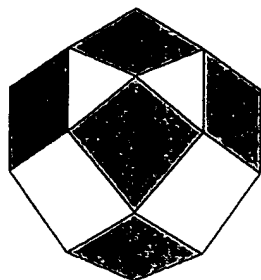


FIG. 6B

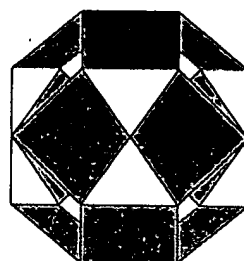


FIG. 6C

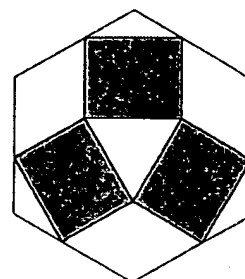


FIG. 6D

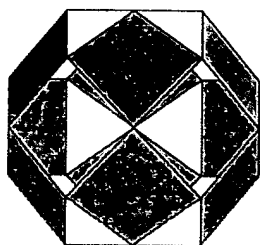


FIG. 6E

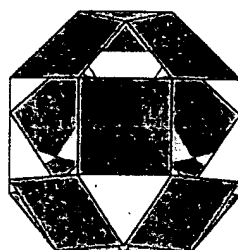


FIG. 6F

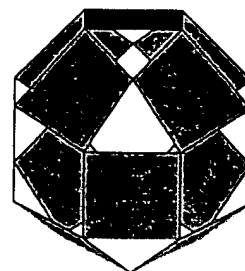


FIG. 6G

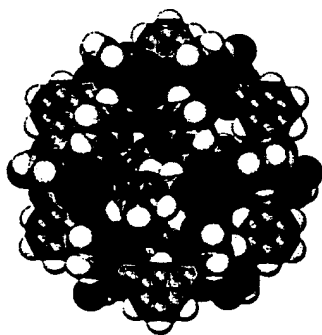


FIG. 6H

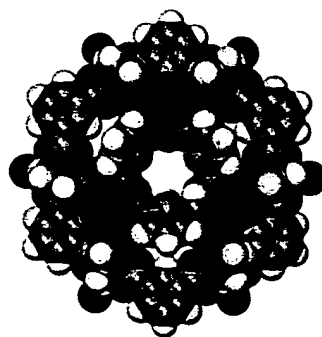


FIG. 6I

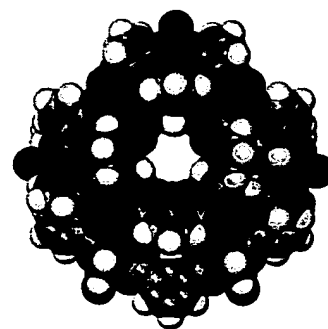
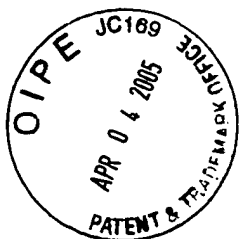


FIG. 6J





11/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

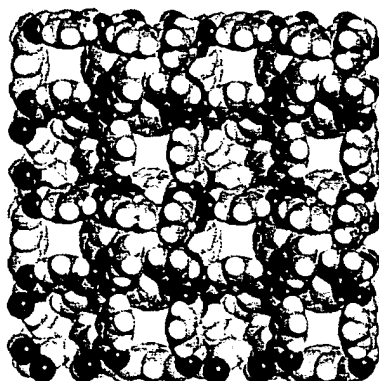


FIG.7A

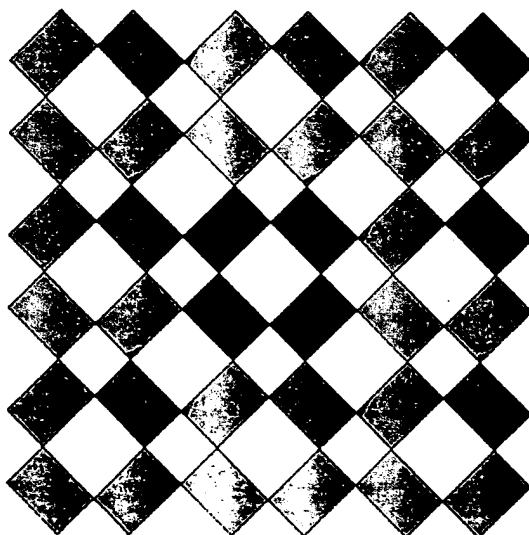


FIG.7B

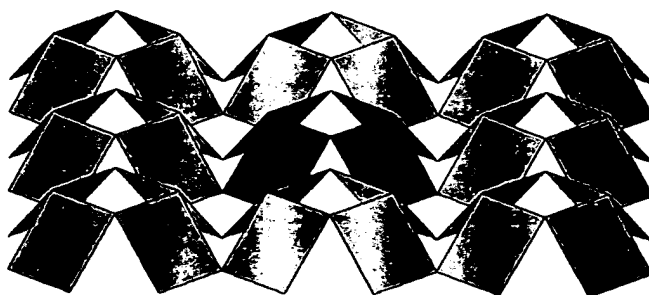
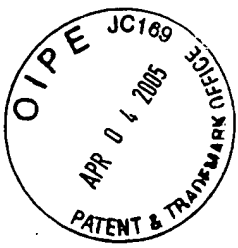


FIG.7C



12/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

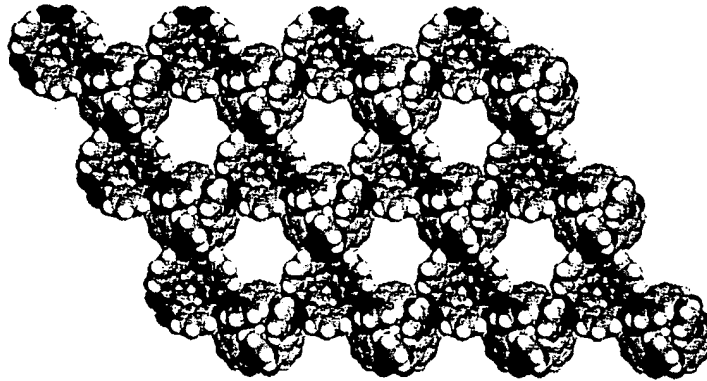


FIG.8A

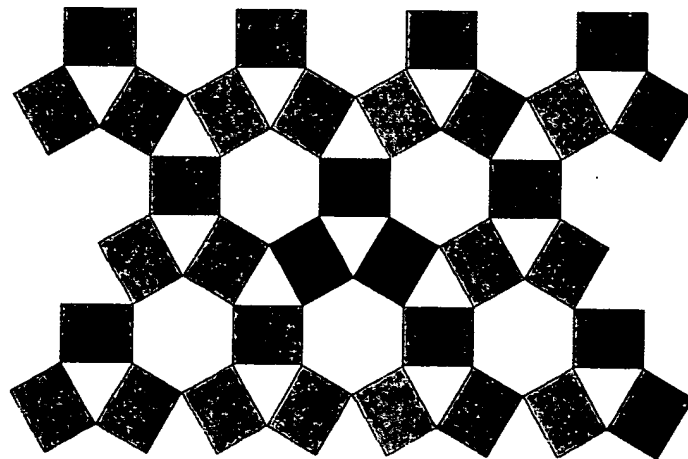


FIG.8B

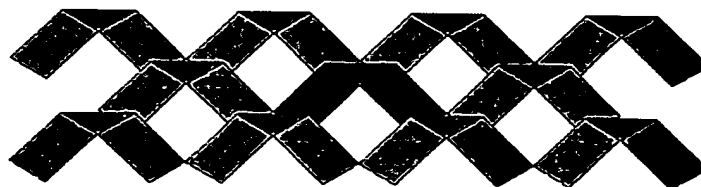
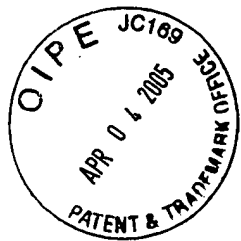


FIG.8C



13/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

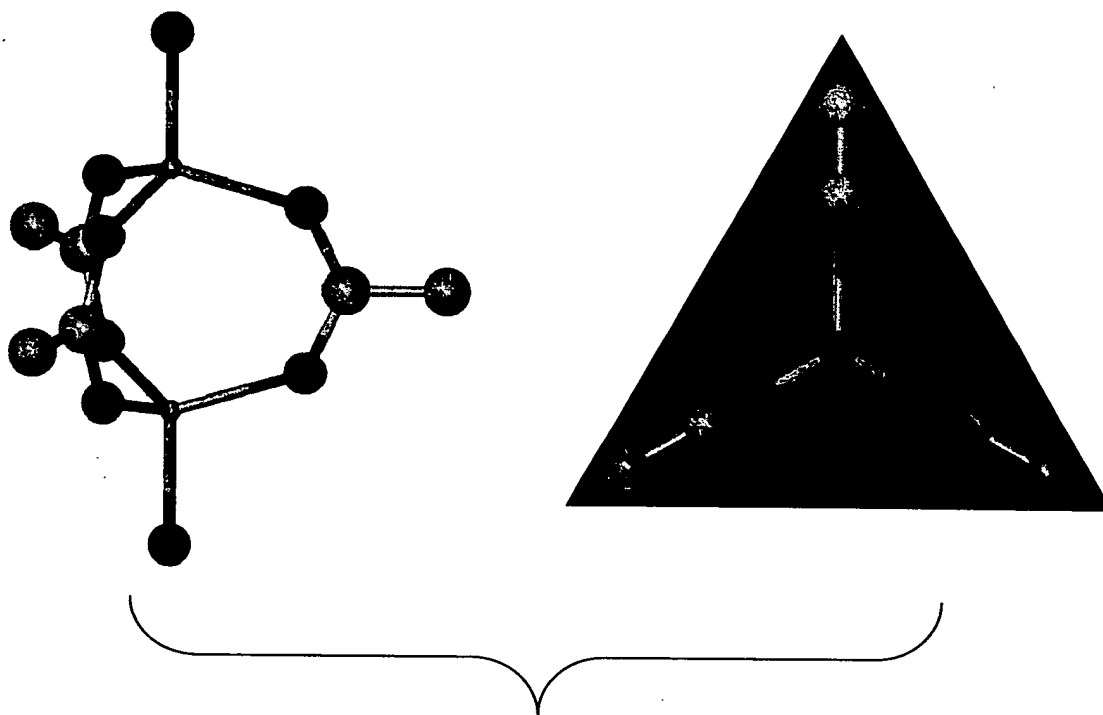
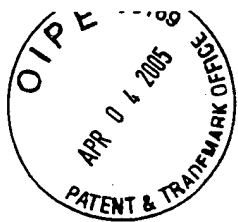


FIG. 9



14/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

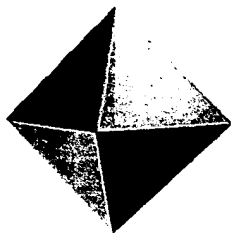


FIG. 10A

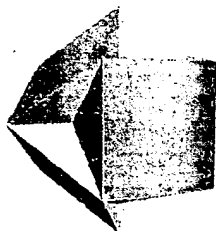


FIG. 10B



FIG. 10C

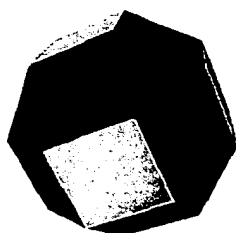


FIG. 10D

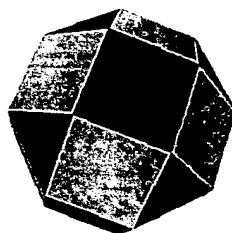


FIG. 10E

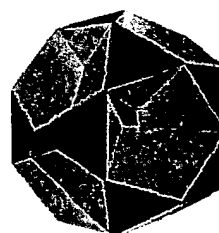


FIG. 10F

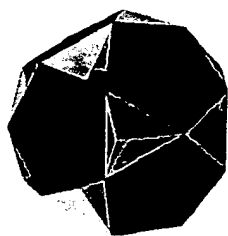


FIG. 10G

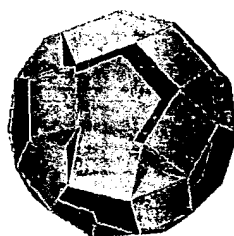


FIG. 10H

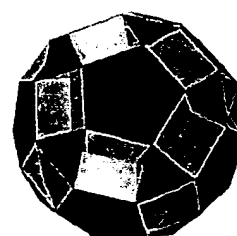


FIG. 10I

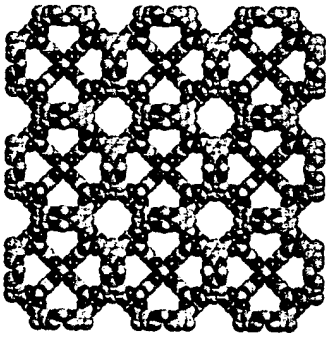


FIG. 11A

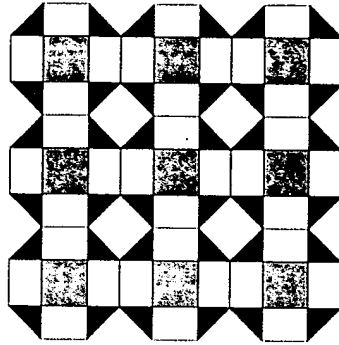


FIG. 11B

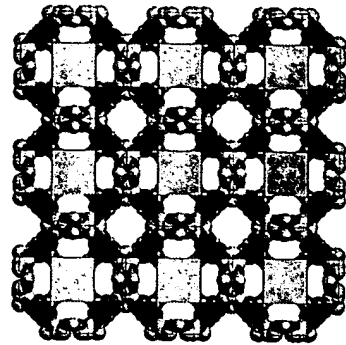


FIG. 11C

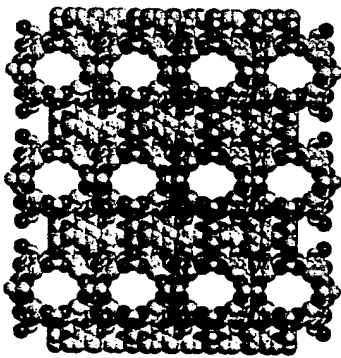


FIG. 11D

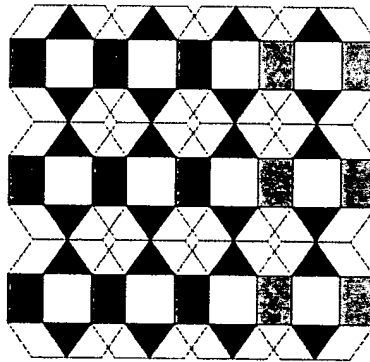


FIG. 11E

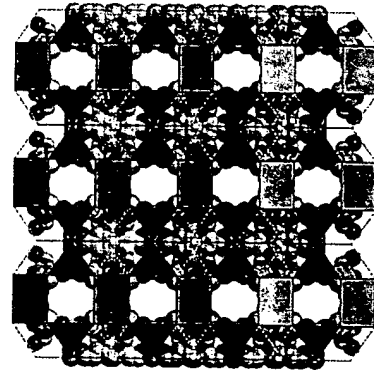


FIG. 11F

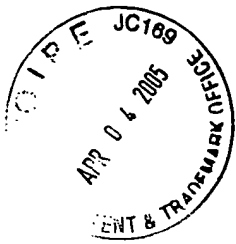


FIG. 12A

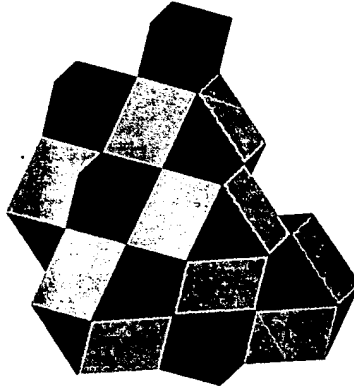


FIG. 12B

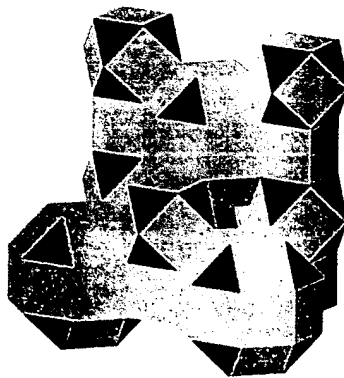
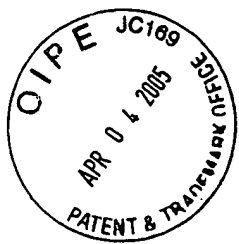


FIG. 12C





16/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

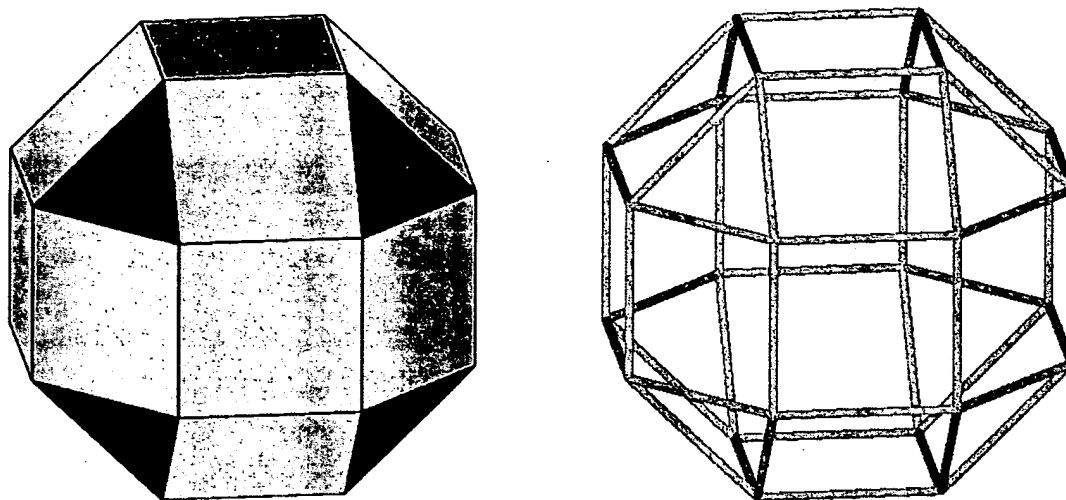


FIG. 13A

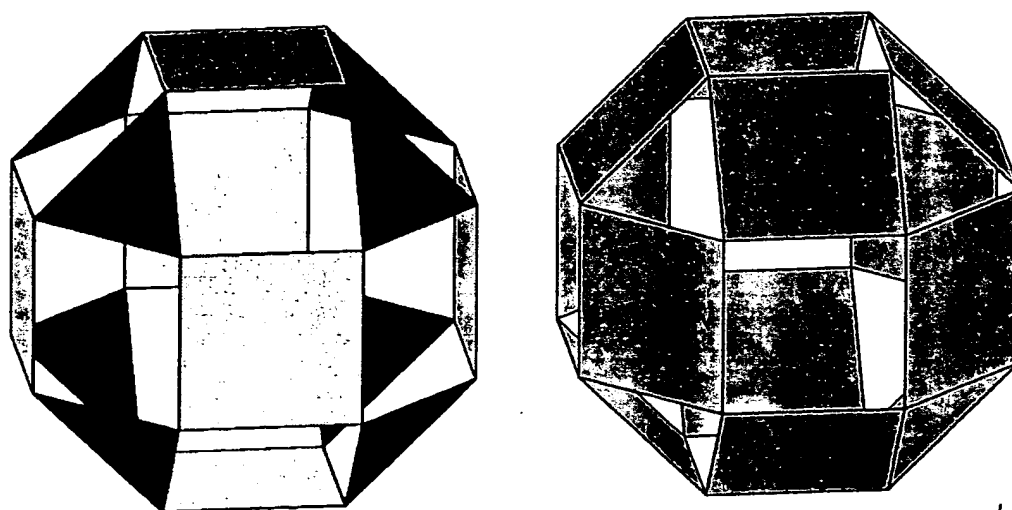
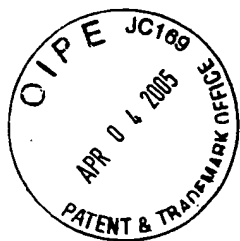


FIG. 13B



17/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

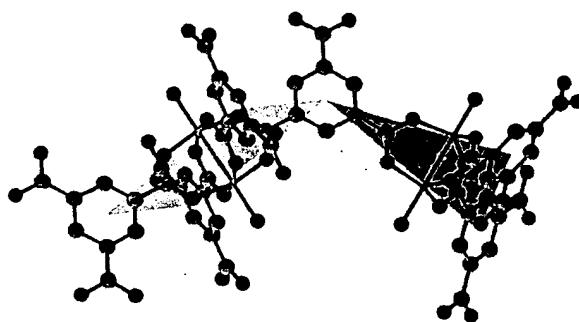


FIG. 14A

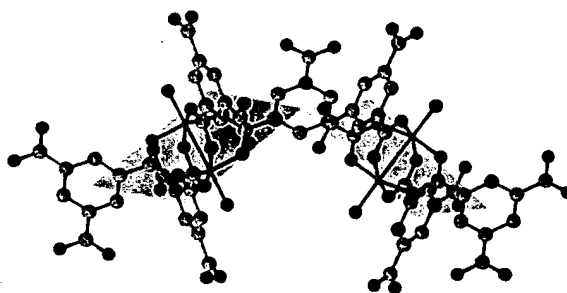


FIG. 14B



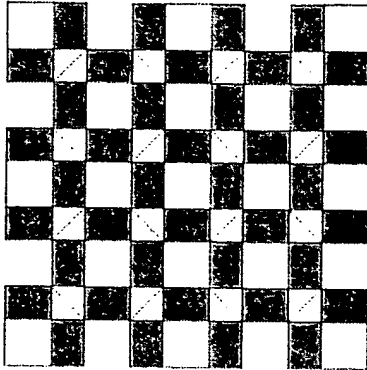


FIG. 15A

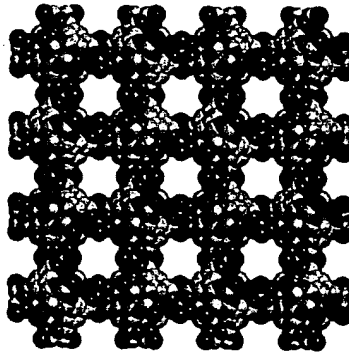


FIG. 15B

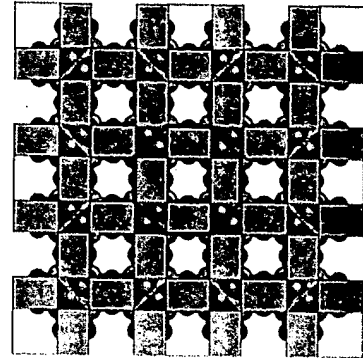


FIG. 15C

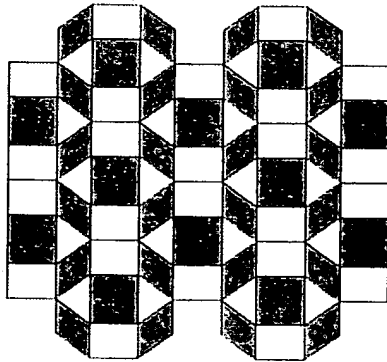


FIG. 15D

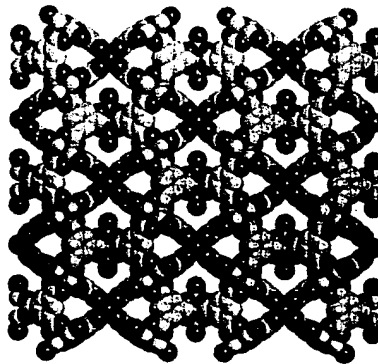


FIG. 15E

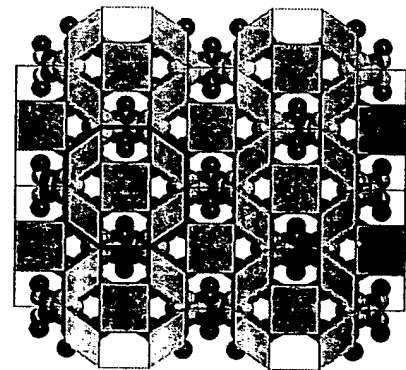


FIG. 15F

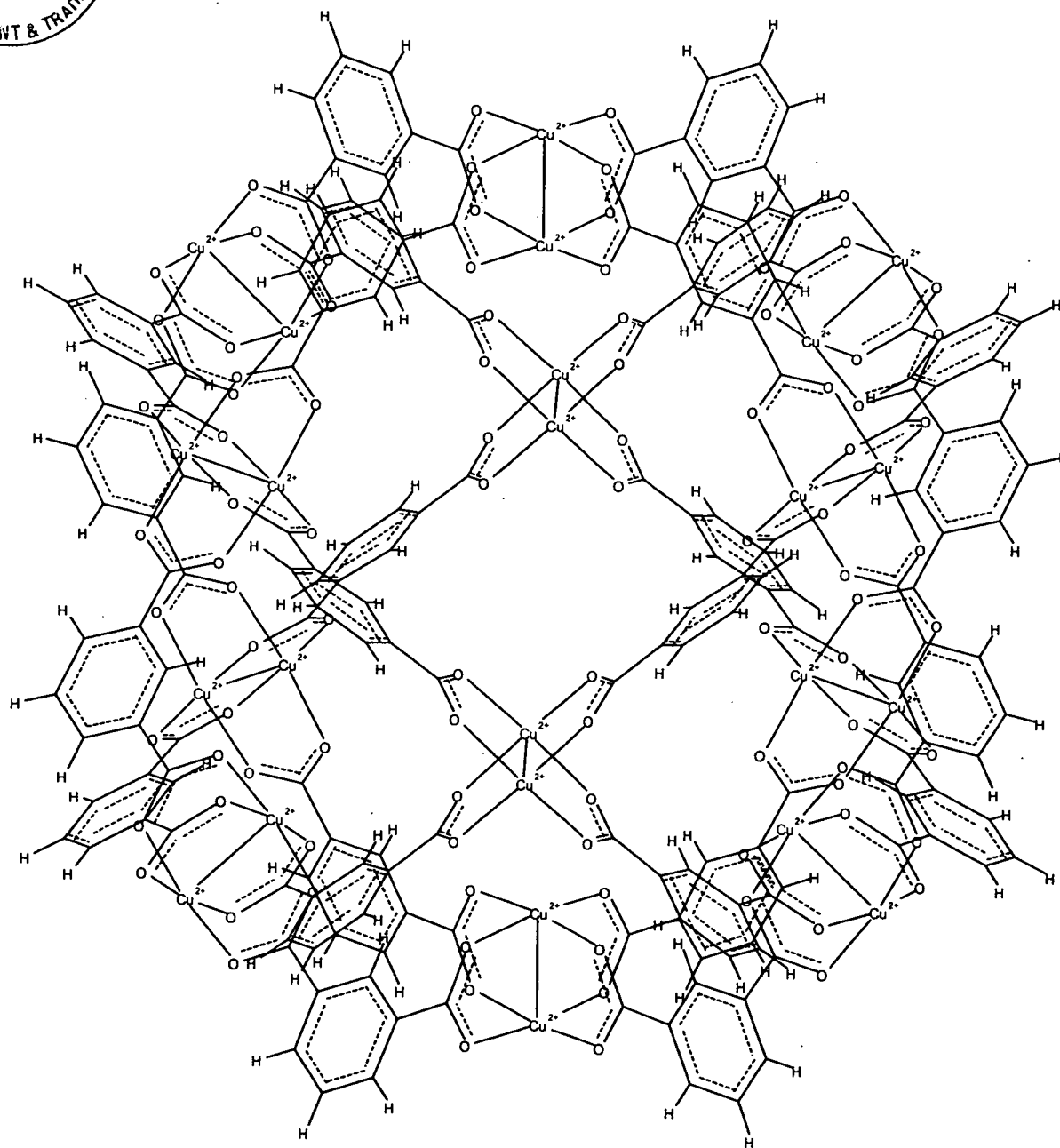
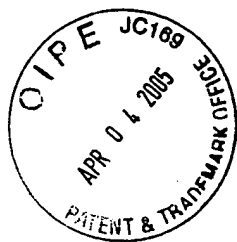
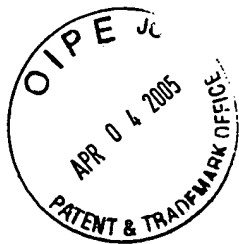


FIG. 16



20/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

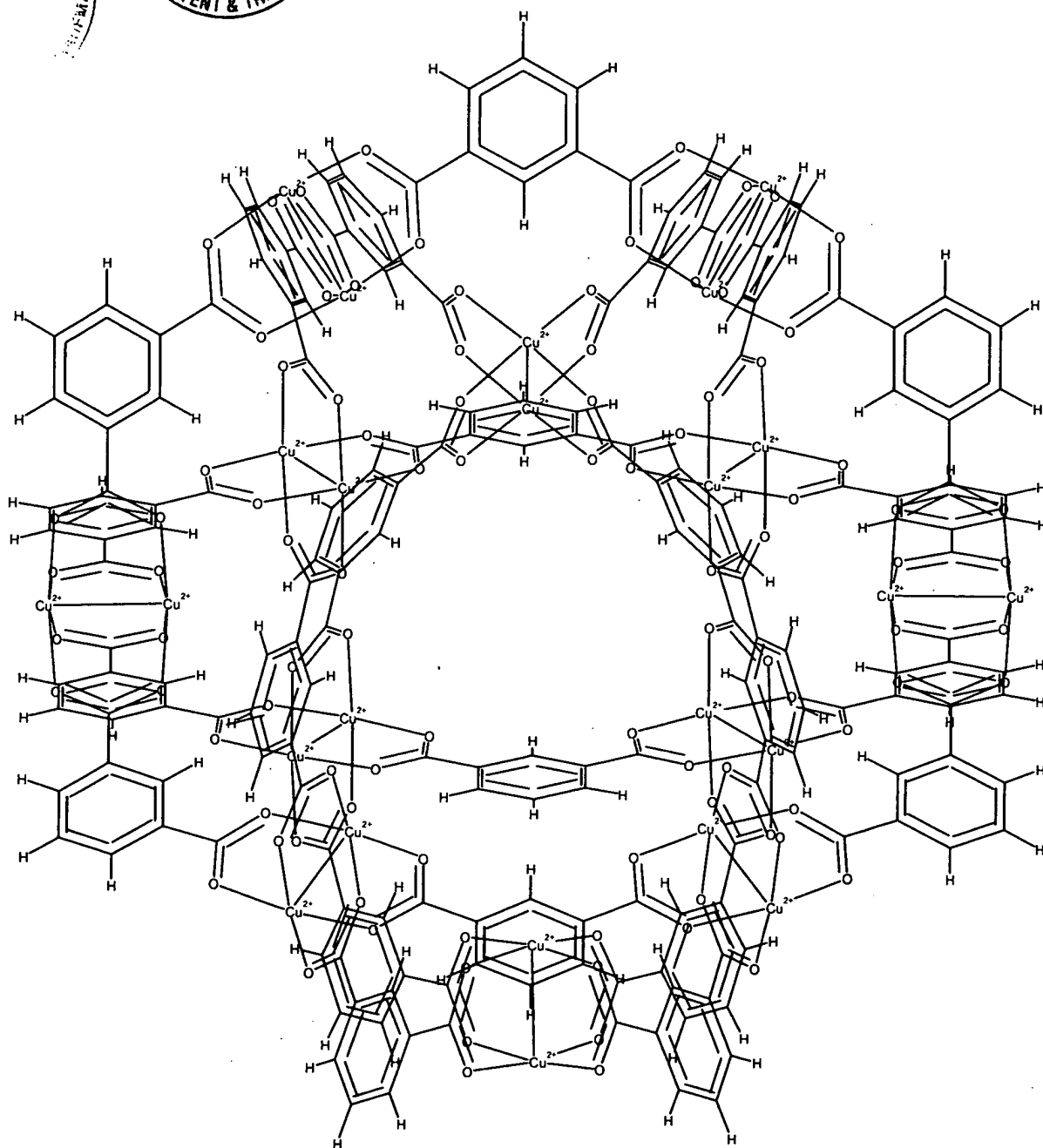


FIG. 17

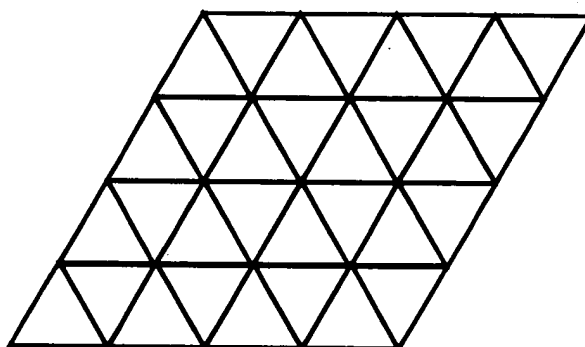
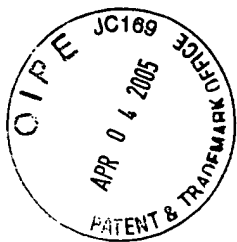


FIG. 18A

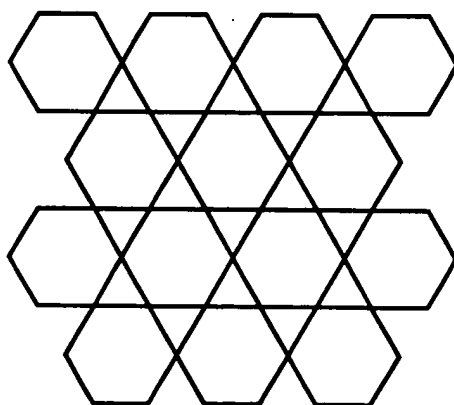
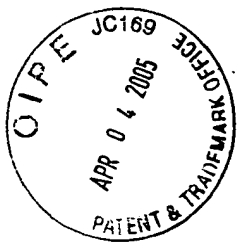


FIG. 18B



22/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

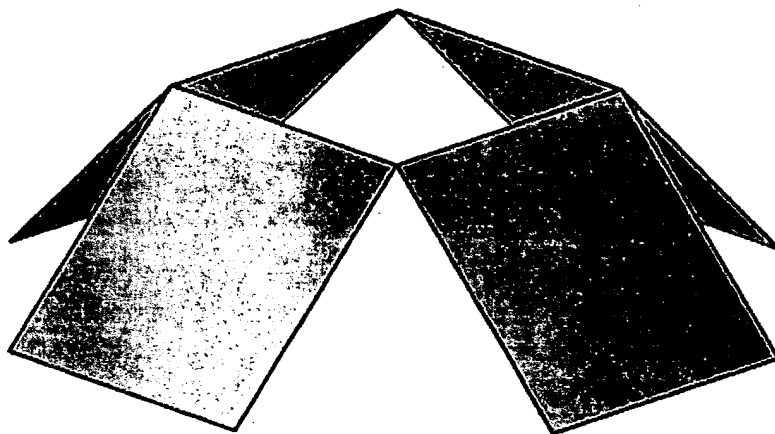


FIG. 19A

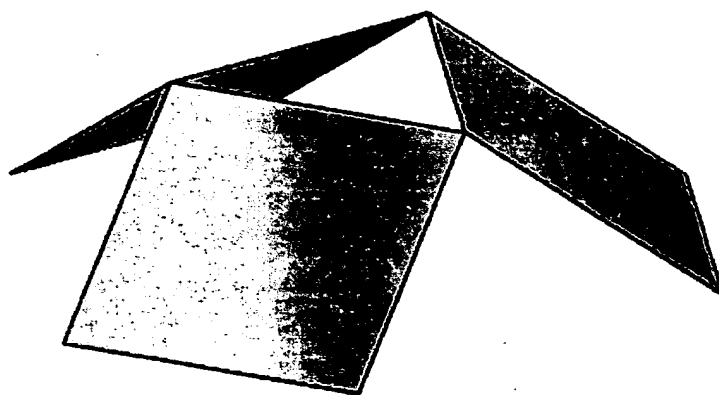


FIG. 19B

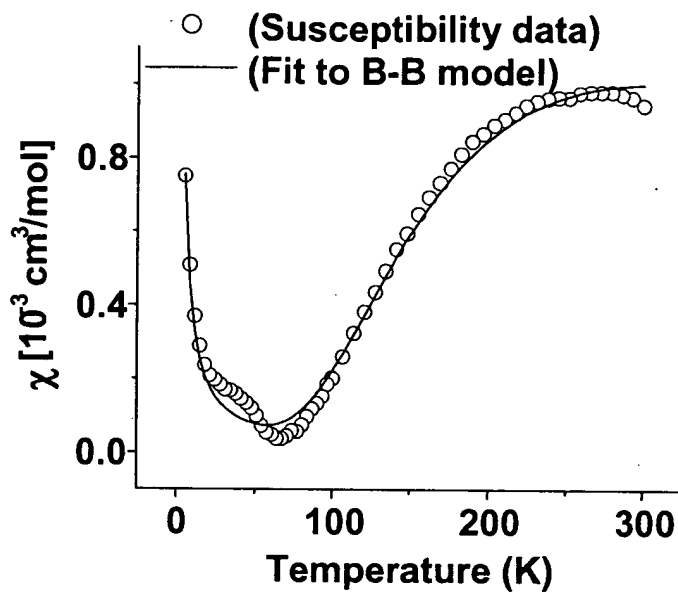
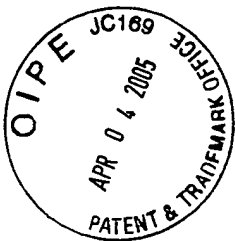


FIG. 20A

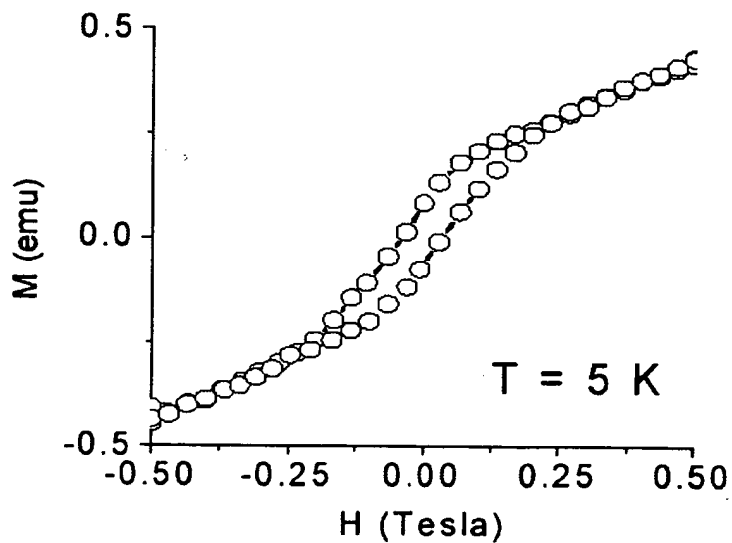


FIG. 20B

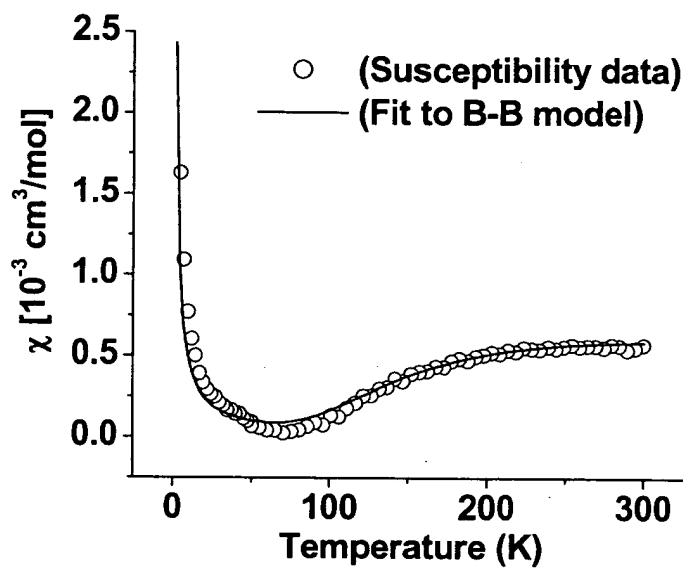
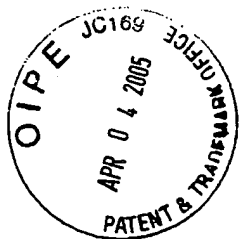


FIG. 21A

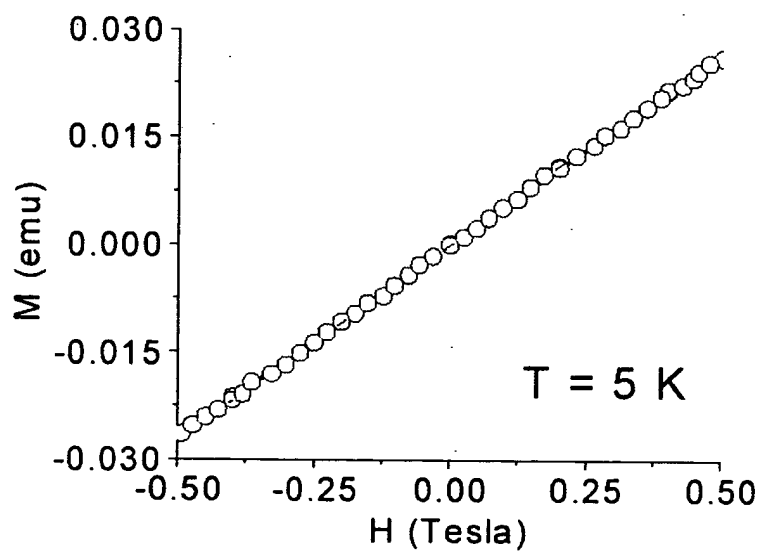


FIG. 21B

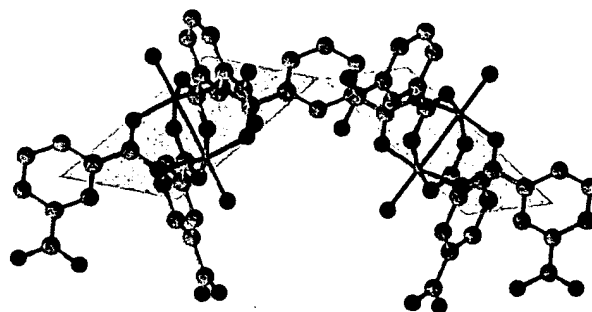
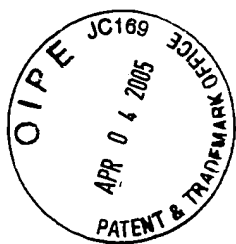


FIG. 22

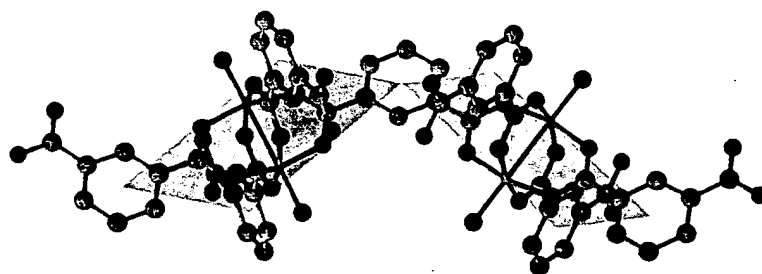


FIG. 23



CN1C=CC2=C1C(=O)OC(=O)C2=O

FIG. 24B

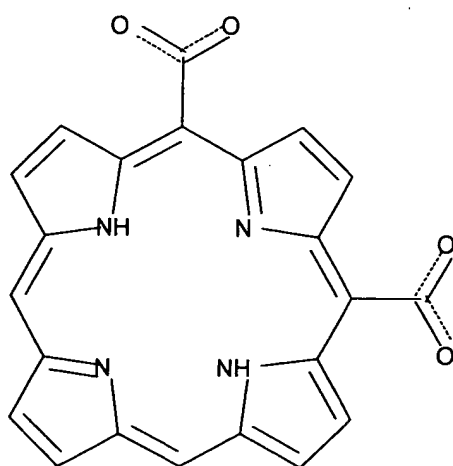
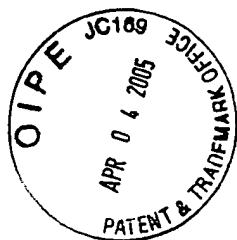


FIG. 24C



27/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

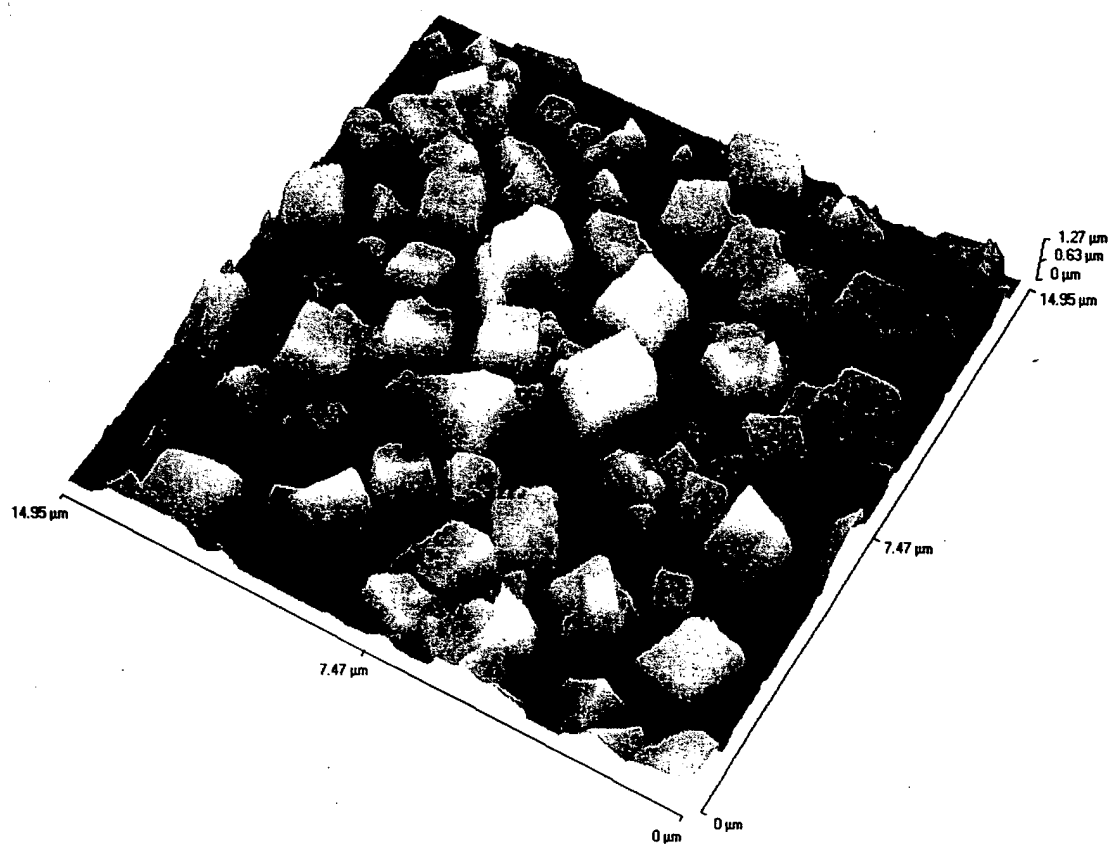
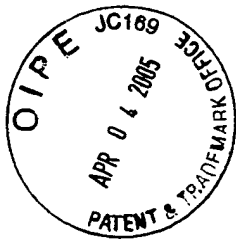


FIG. 25



28/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

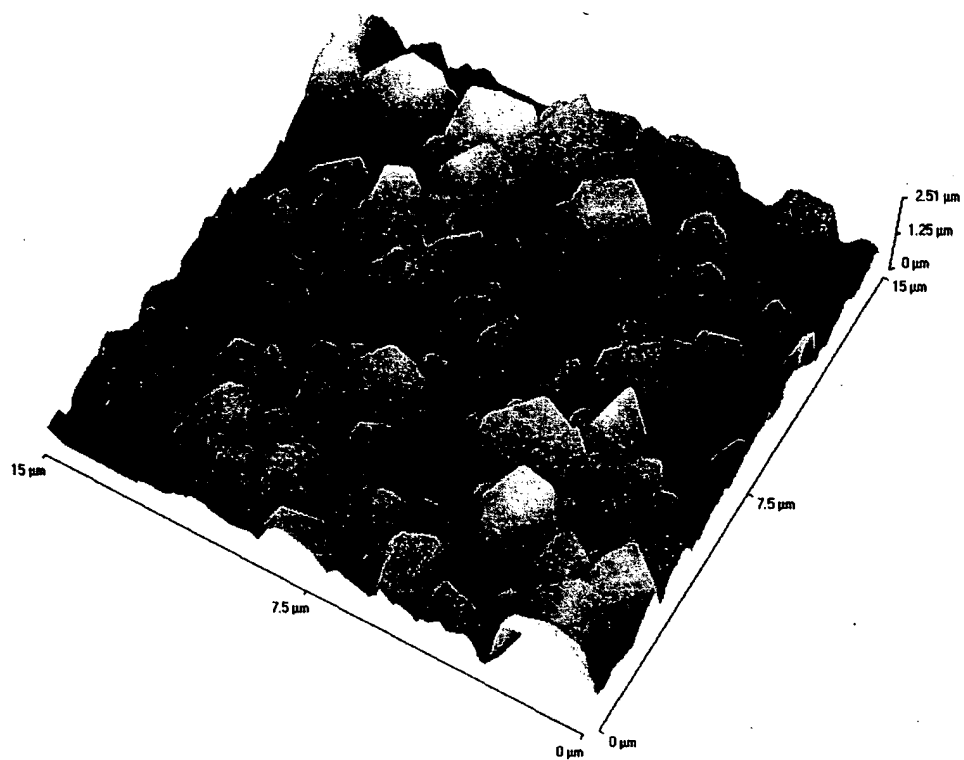


FIG. 26

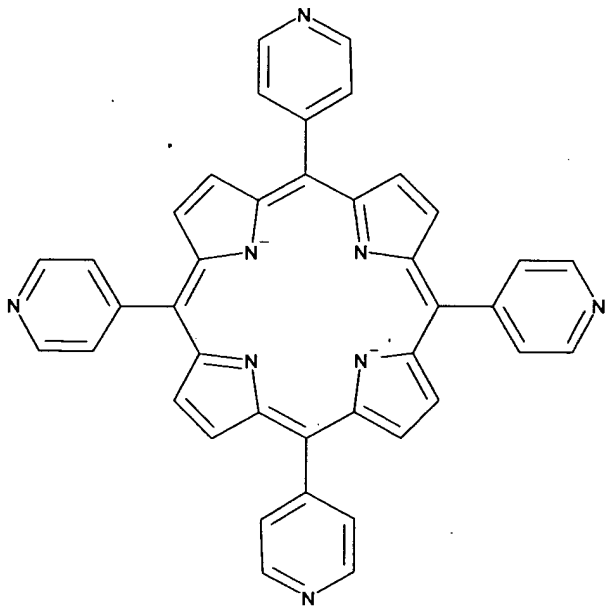


FIG. 27

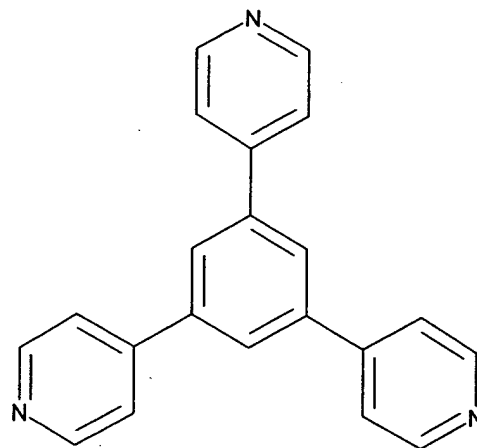


FIG. 28

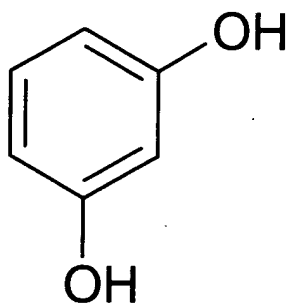


FIG. 29

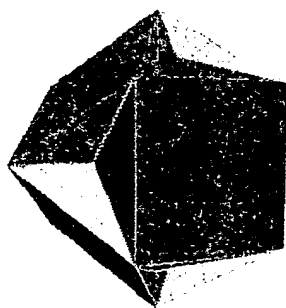
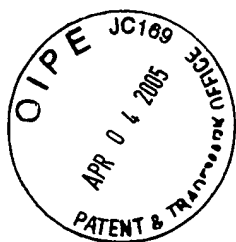


FIG. 1A

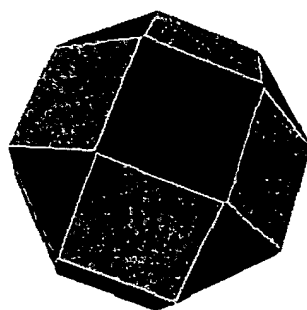


FIG. 1B

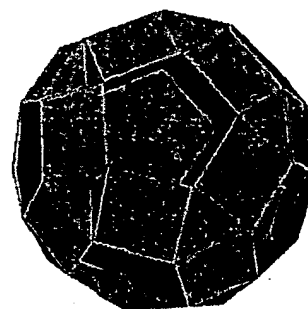


FIG. 1C

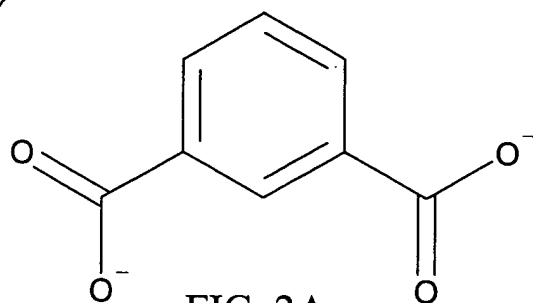
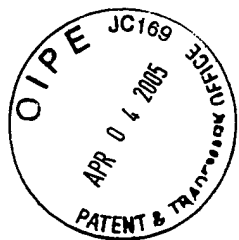


FIG. 2A

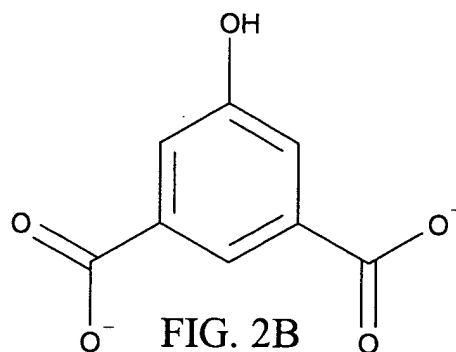


FIG. 2B

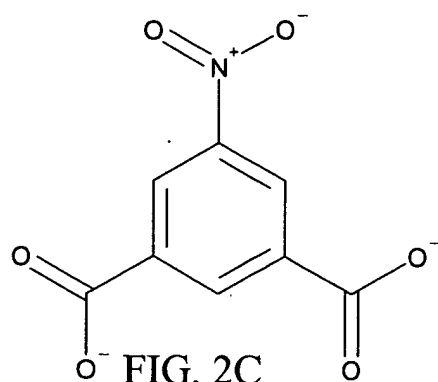


FIG. 2C

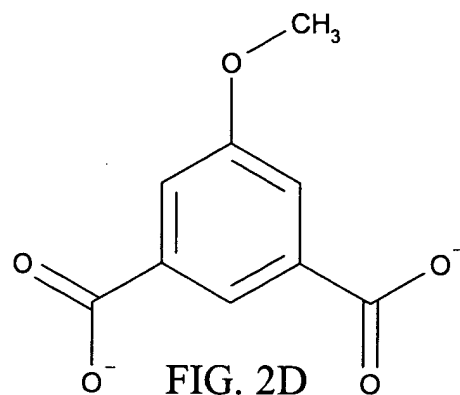


FIG. 2D

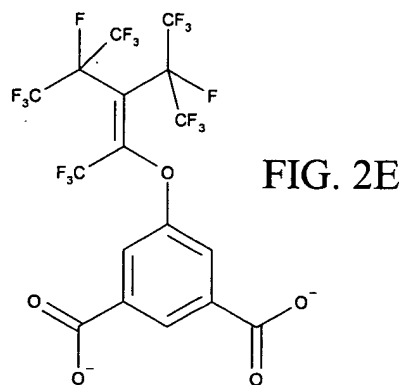


FIG. 2E

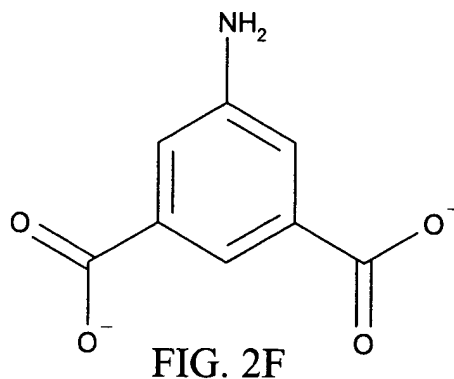


FIG. 2F

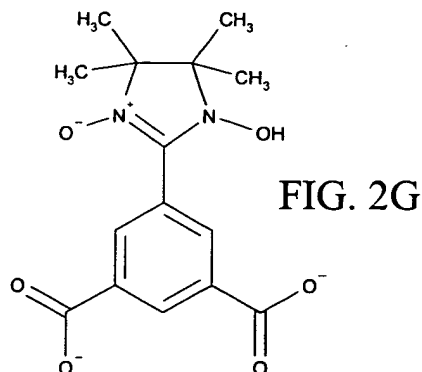


FIG. 2G

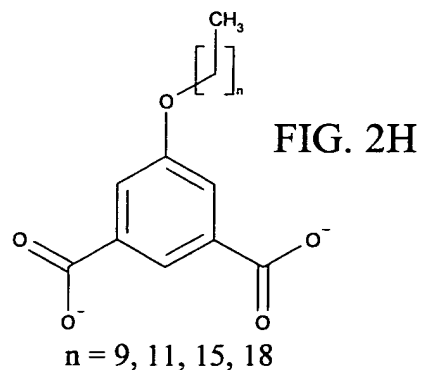


FIG. 2H

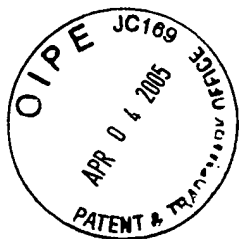


FIG. 2I

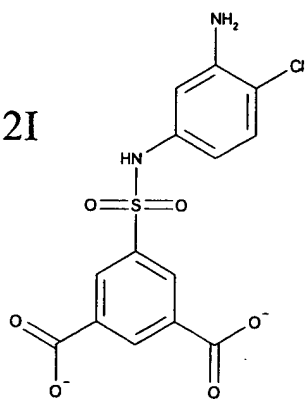


FIG. 2J

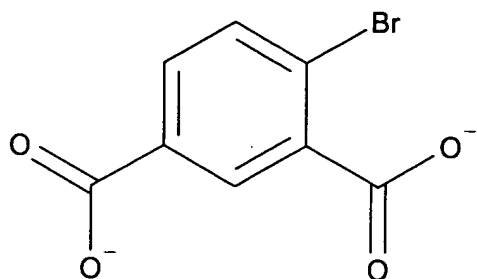
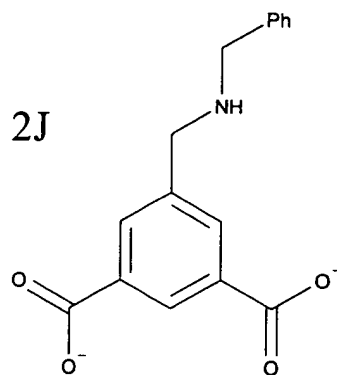


FIG. 2K

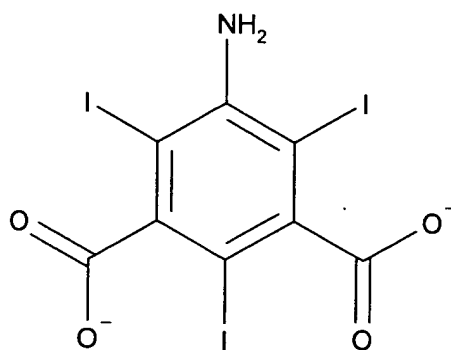


FIG. 2L

FIG. 2M

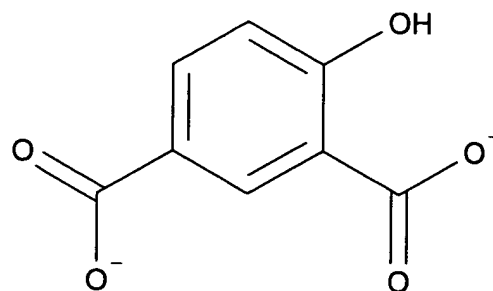
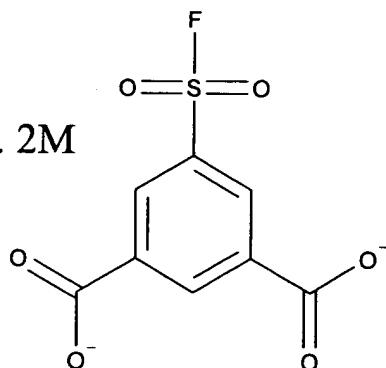


FIG. 2N

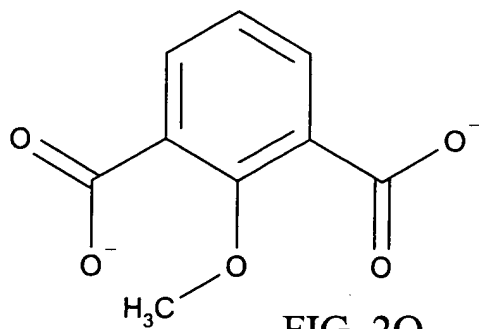


FIG. 2O

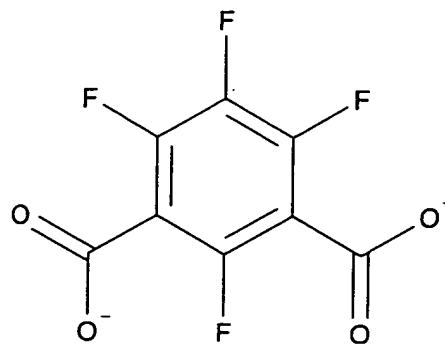
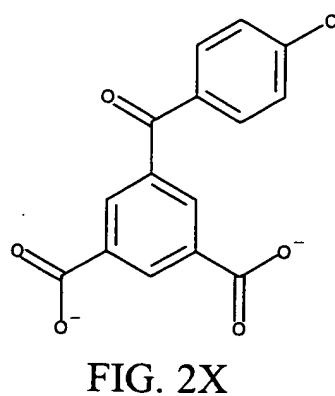
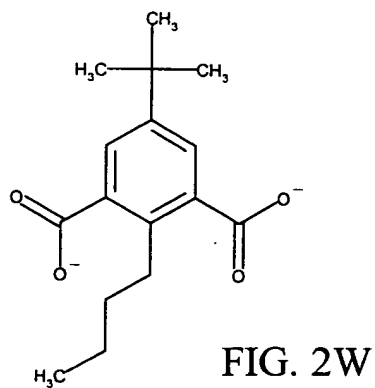
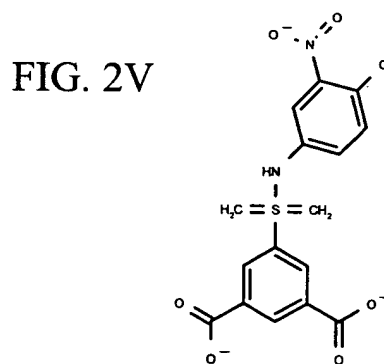
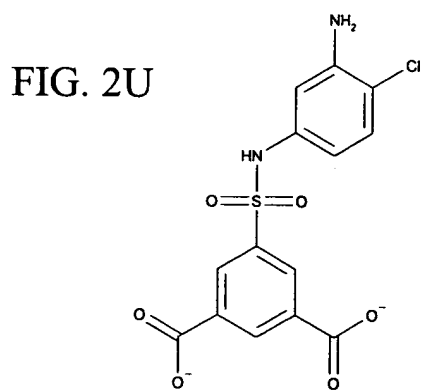
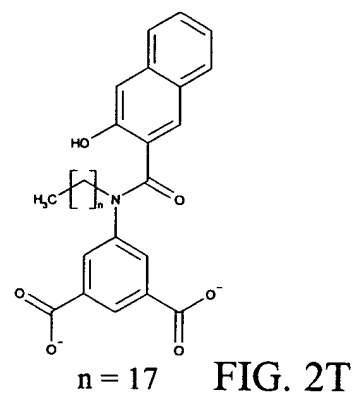
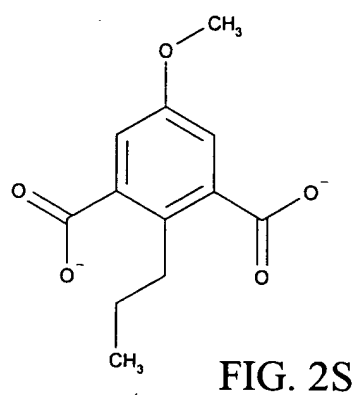
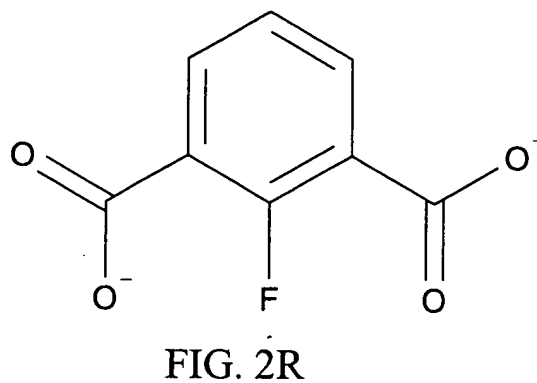
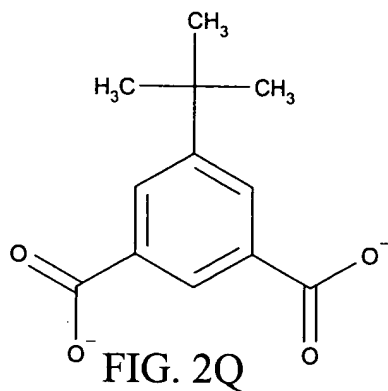
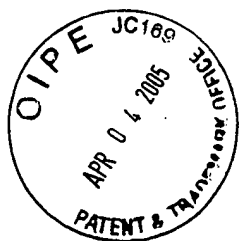


FIG. 2P





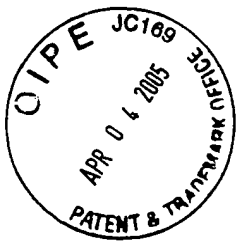


FIG. 2Y

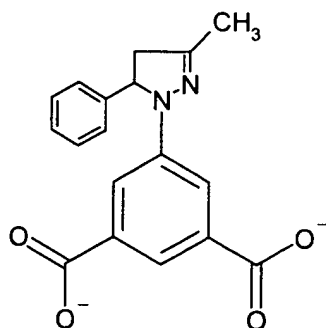


FIG. 2Z

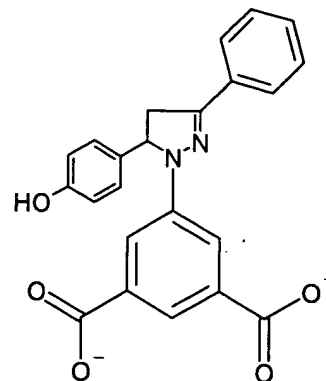


FIG. 2AA

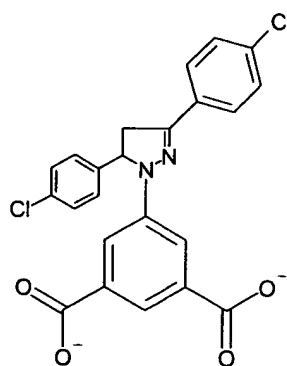


FIG. 2BB

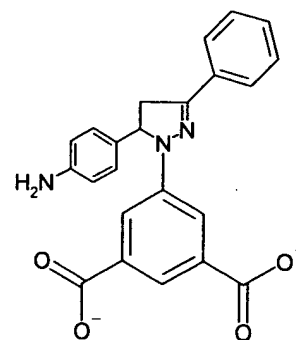


FIG. 2 CC

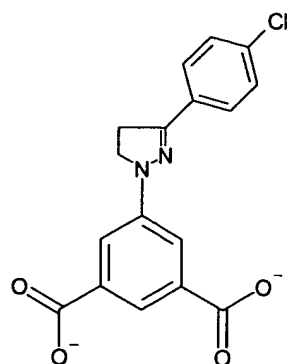


FIG.2 DD

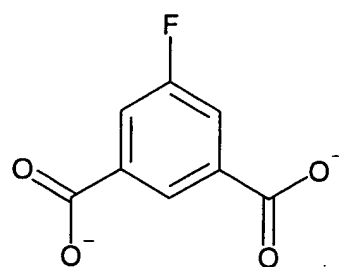


FIG. 2 EE

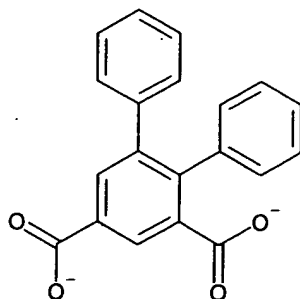
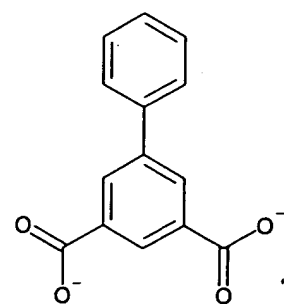


FIG. 2 FF



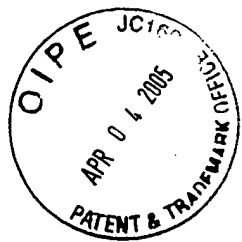


FIG. 2 GG

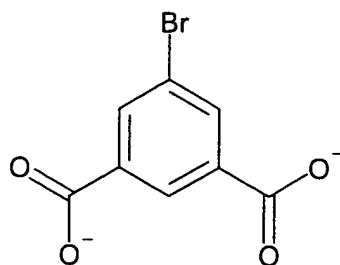


FIG. 2 HH

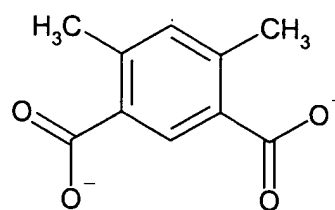


FIG. 2 II

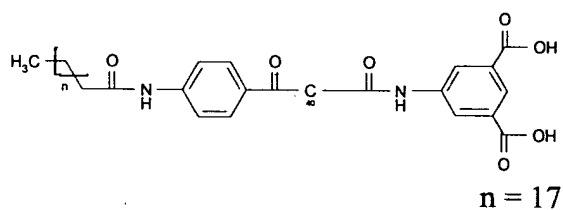
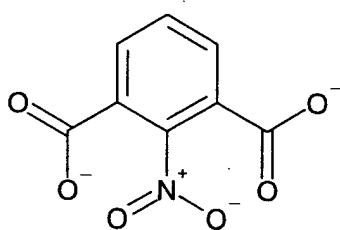


FIG. 2 JJ

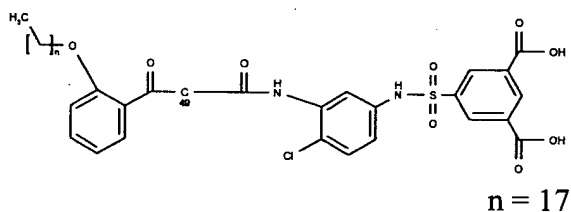


FIG. 2 KK

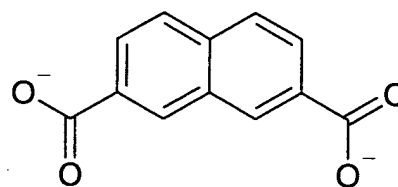


FIG. 2 LL

FIG. 2 MM

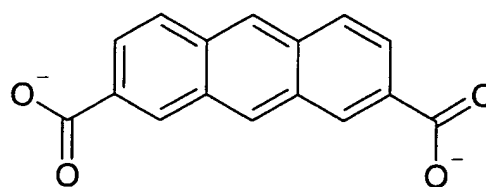
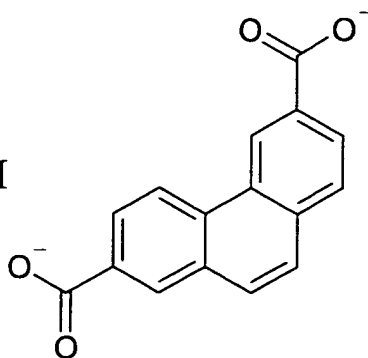


FIG. 2 NN

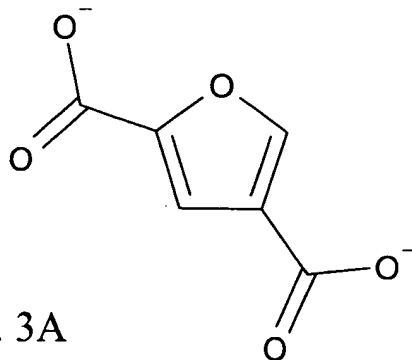


FIG. 3A

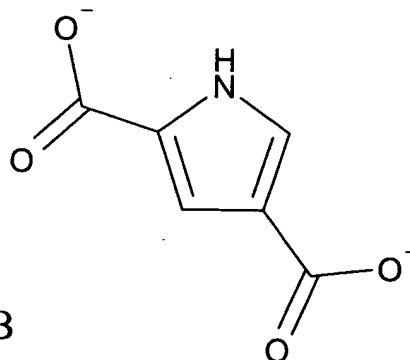


FIG. 3B

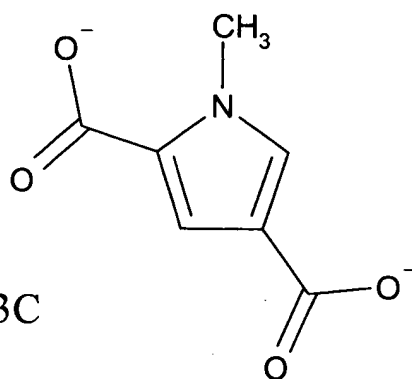


FIG. 3C

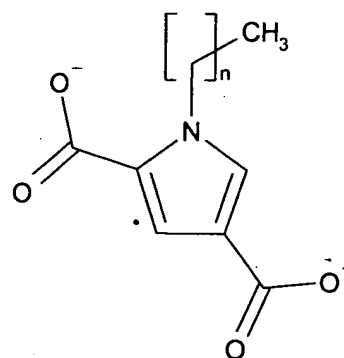


FIG. 3D

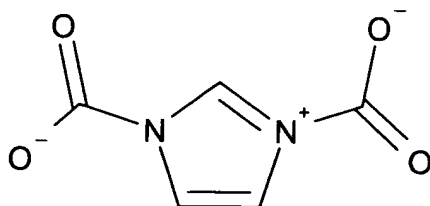


FIG. 3E

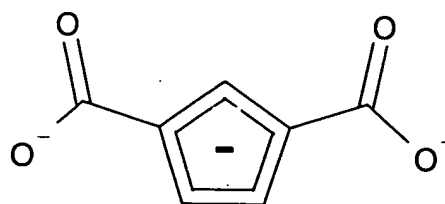


FIG. 3F

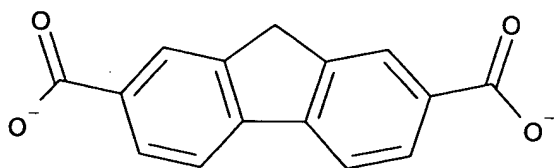


FIG. 3G

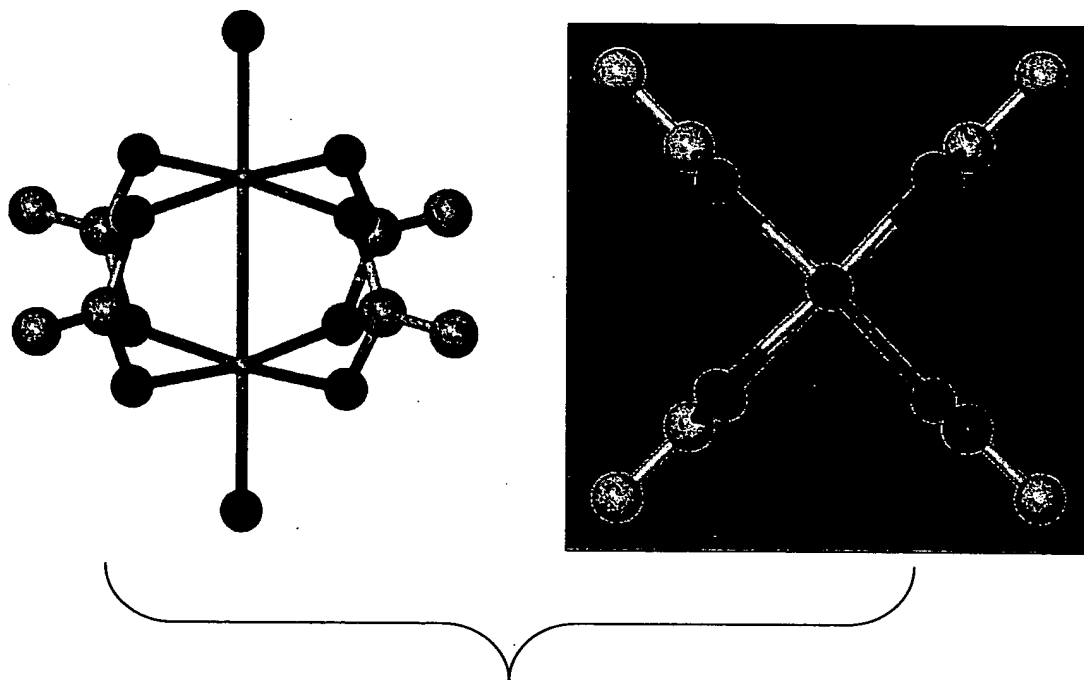
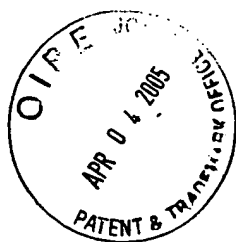


FIG. 4

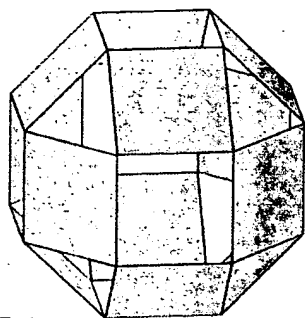
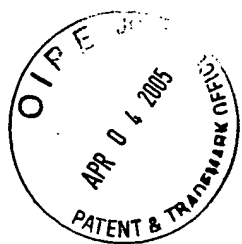


FIG. 5A

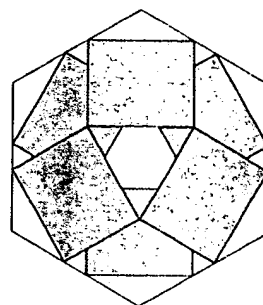


FIG. 5B

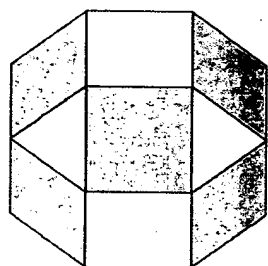


FIG. 5C

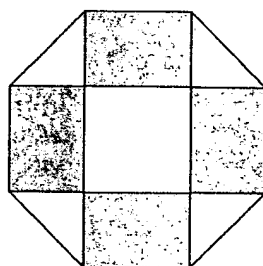


FIG. 5D

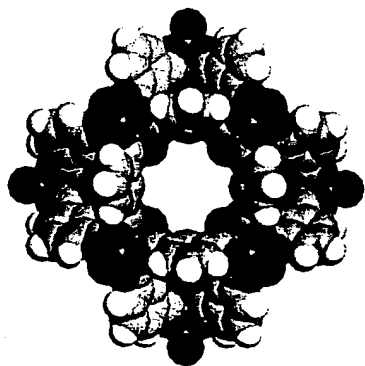


FIG. 5E

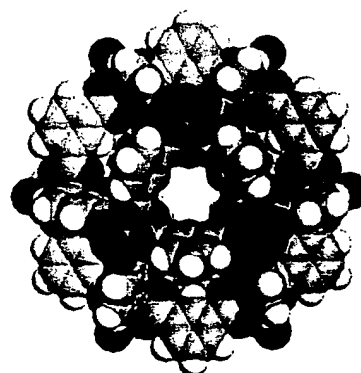


FIG. 5F

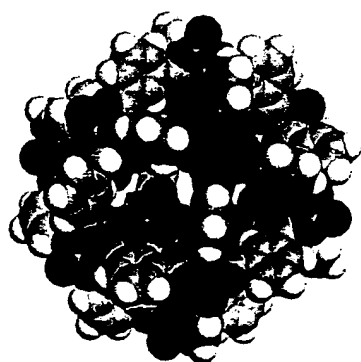


FIG. 5G

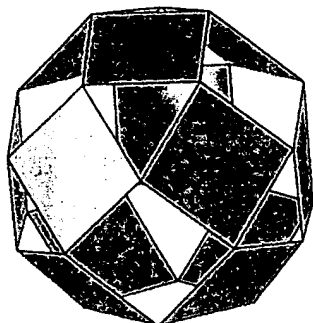
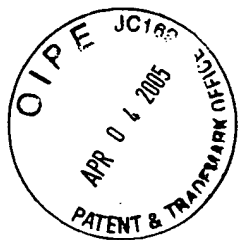


FIG. 6A

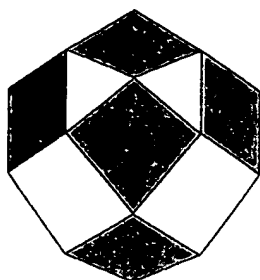


FIG. 6B

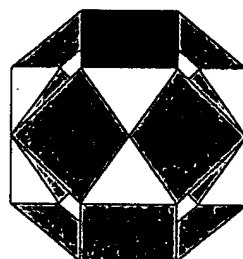


FIG. 6C

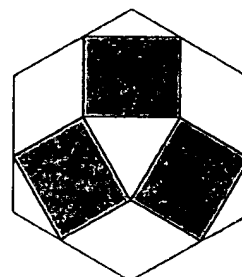


FIG. 6D

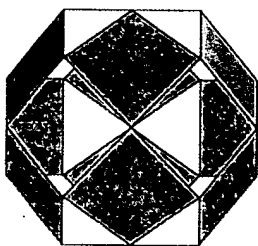


FIG. 6E

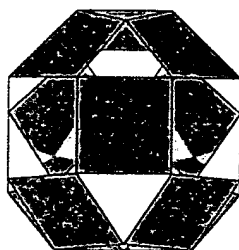


FIG. 6F

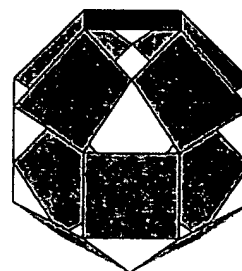


FIG. 6G

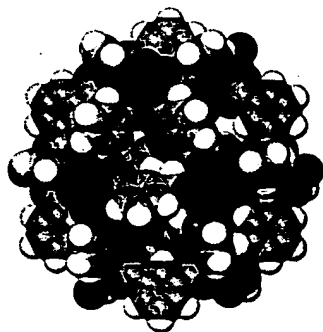


FIG. 6H

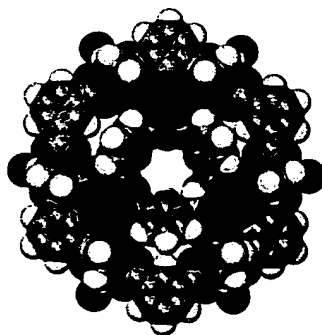


FIG. 6I

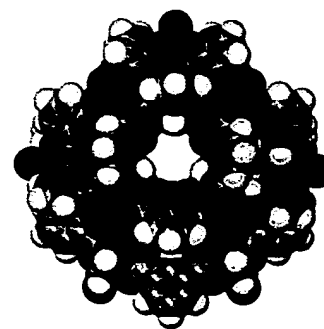


FIG. 6J

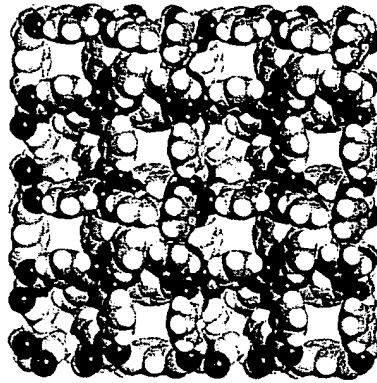
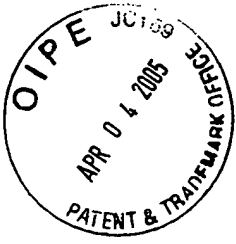


FIG. 7A

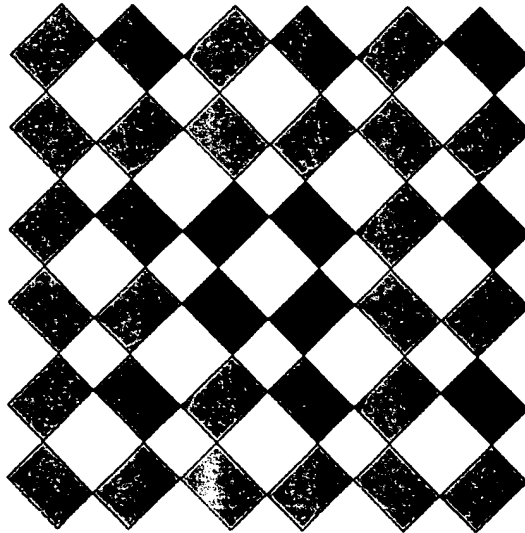


FIG. 7B

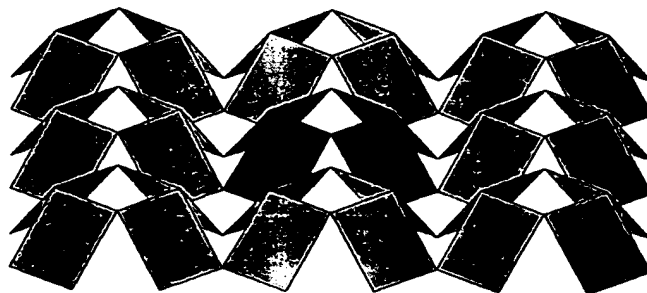


FIG. 7C

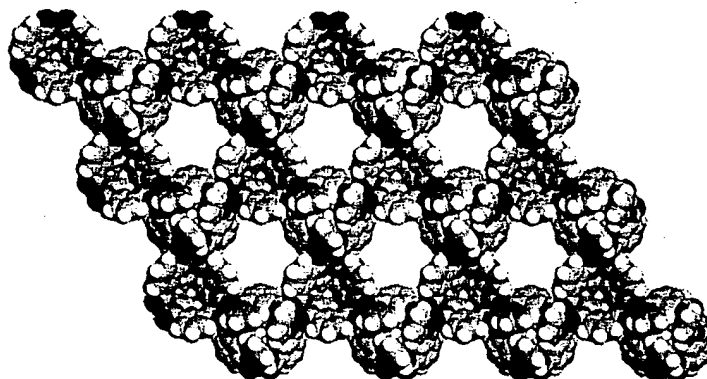
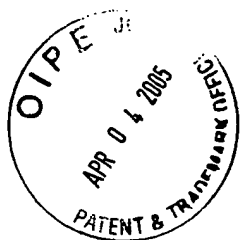


FIG.8A

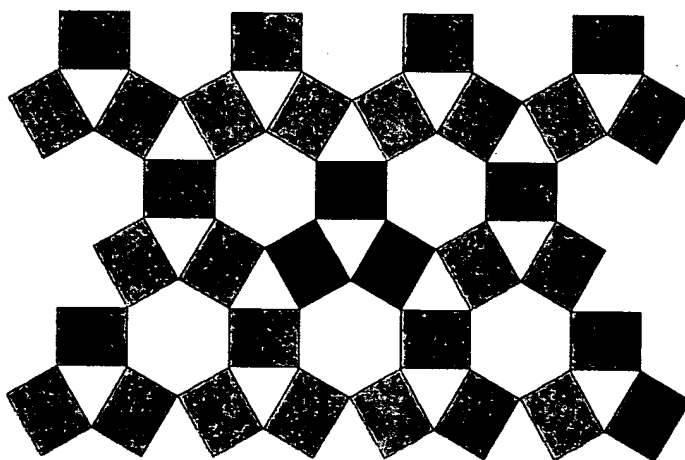


FIG.8B



FIG.8C



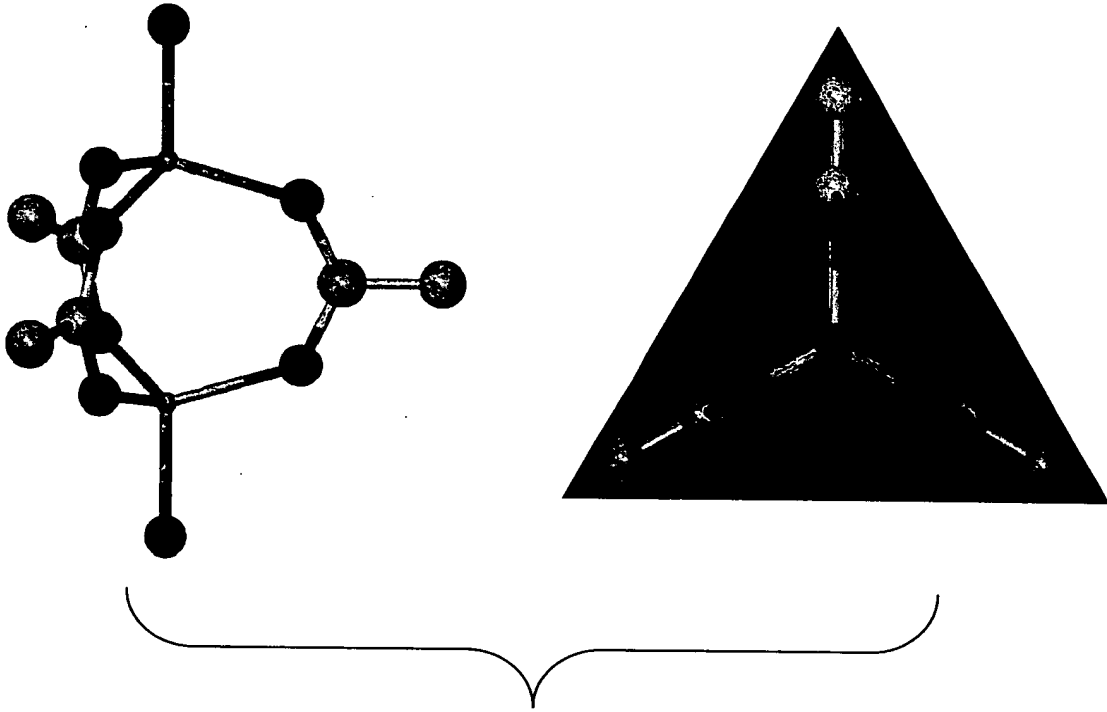
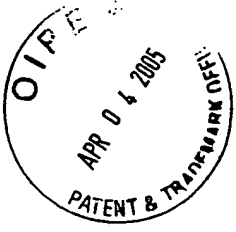


FIG. 9

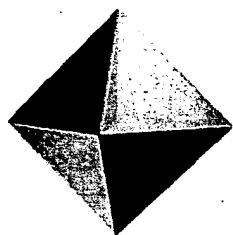
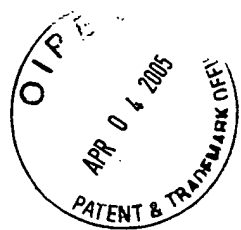


FIG. 10A

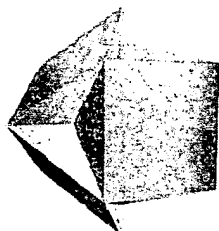


FIG. 10B



FIG. 10C

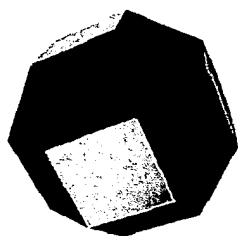


FIG. 10D

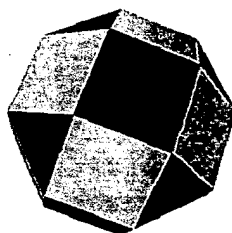


FIG. 10E

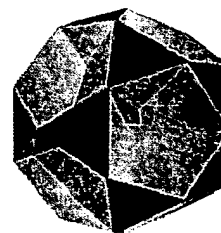


FIG. 10F

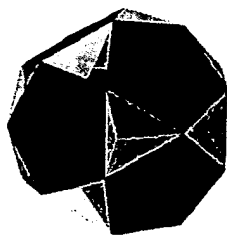


FIG. 10G

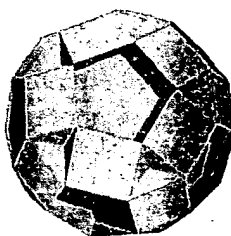


FIG. 10H

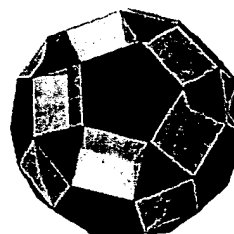


FIG. 10I

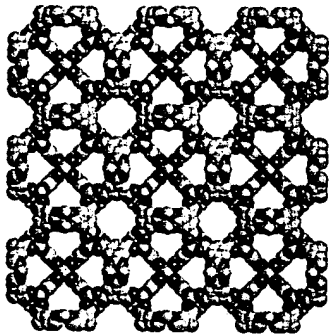
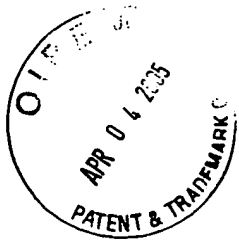


FIG. 11A

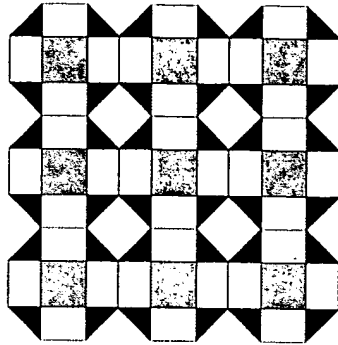


FIG. 11B

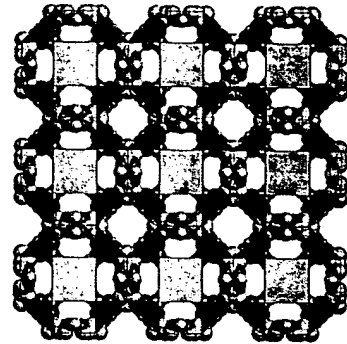


FIG. 11C

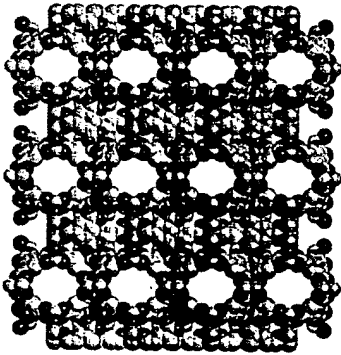


FIG. 11D

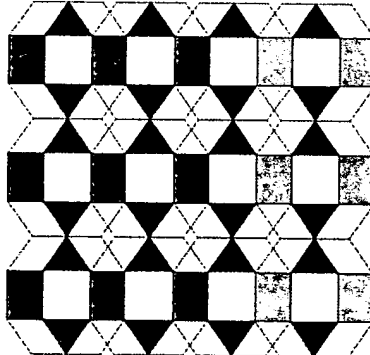


FIG. 11E

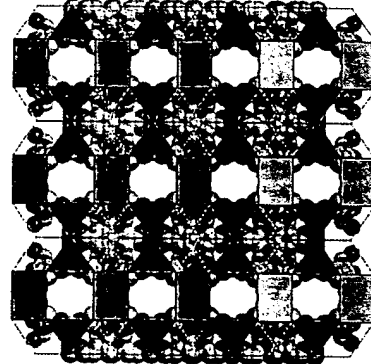


FIG. 11F

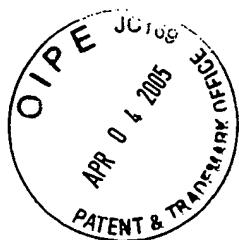


FIG. 12A

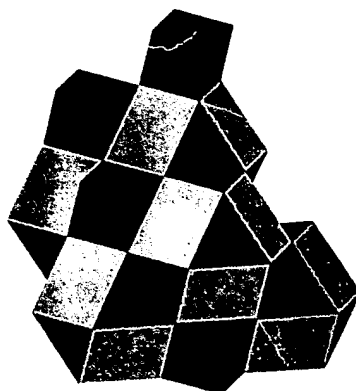


FIG. 12B

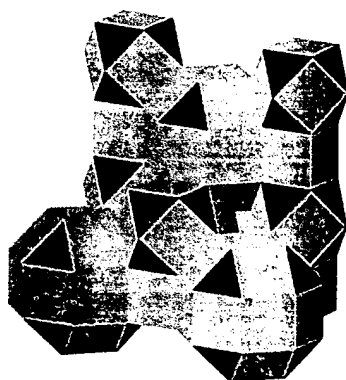
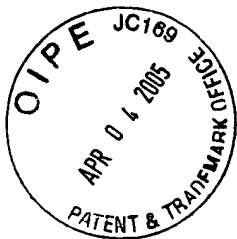


FIG. 12C





16/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

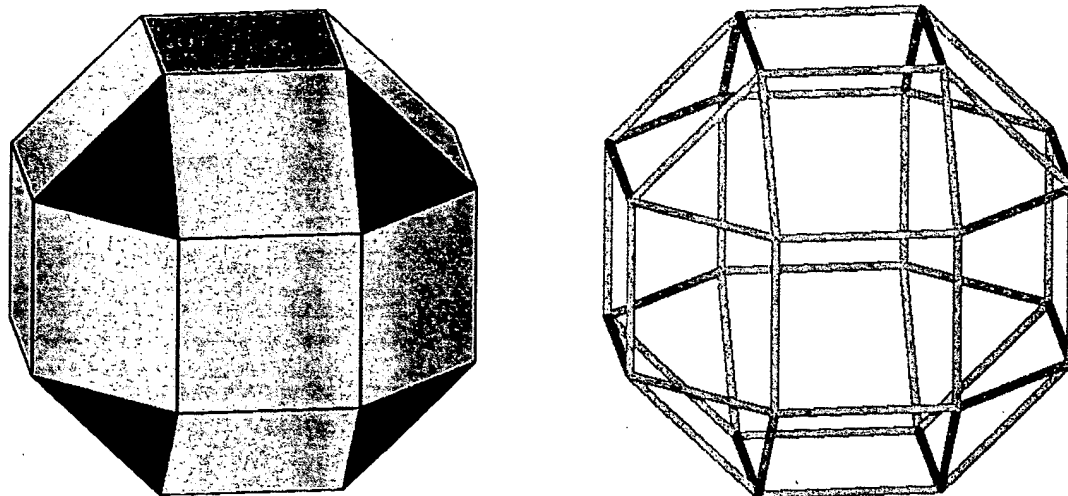


FIG. 13A

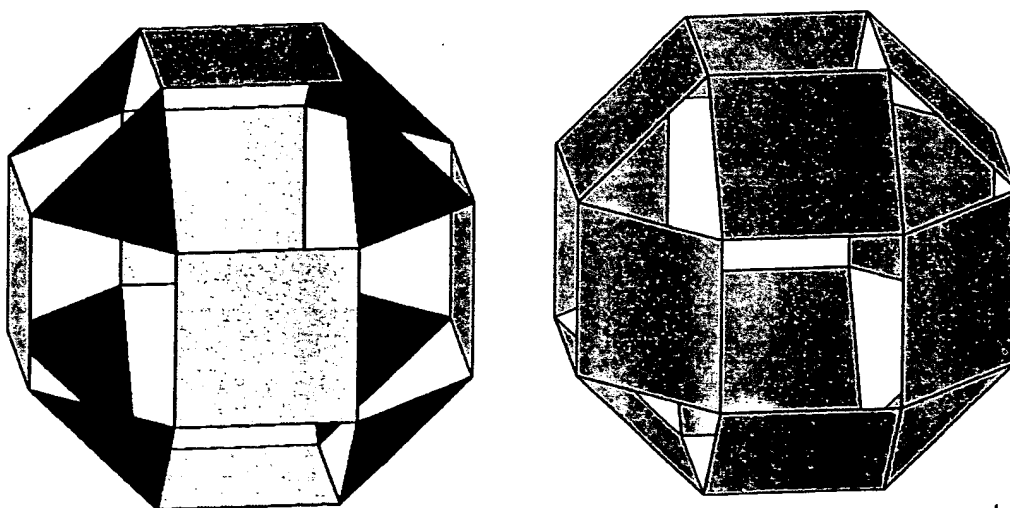
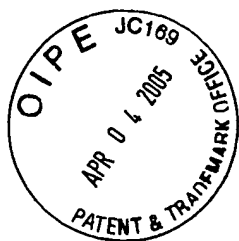


FIG. 13B



17/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

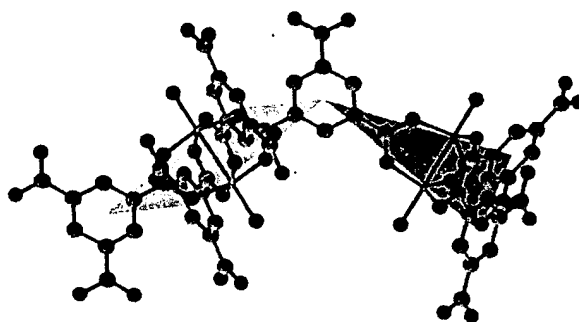


FIG. 14A

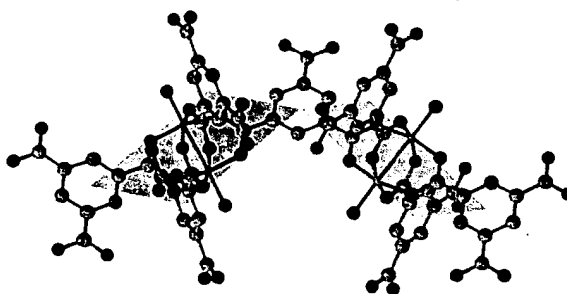


FIG. 14B

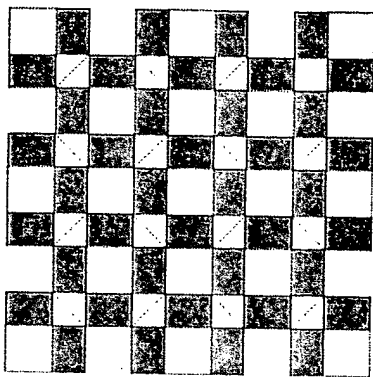
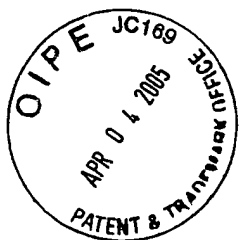


FIG. 15A

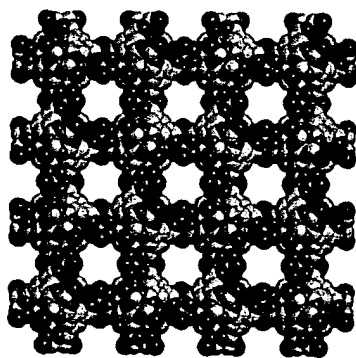


FIG. 15B

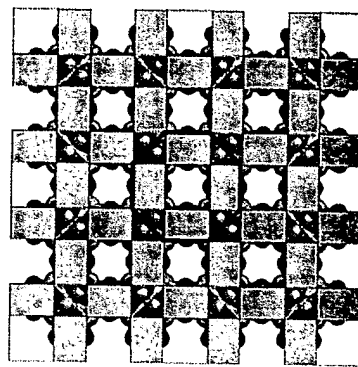


FIG. 15C

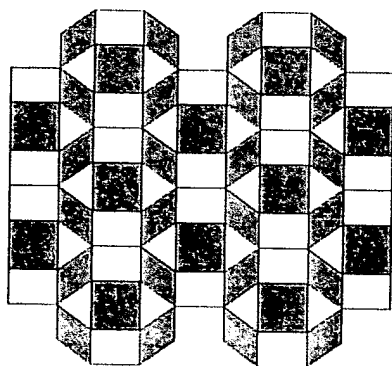


FIG. 15D

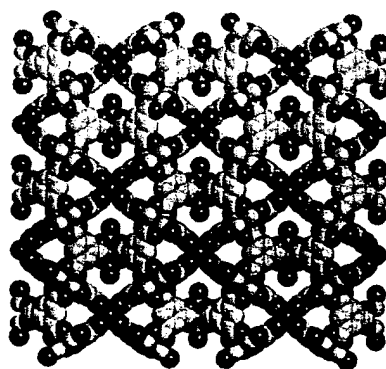


FIG. 15E

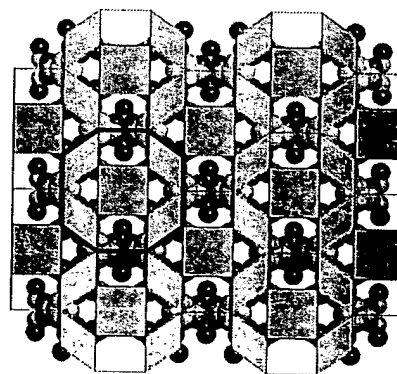


FIG. 15F

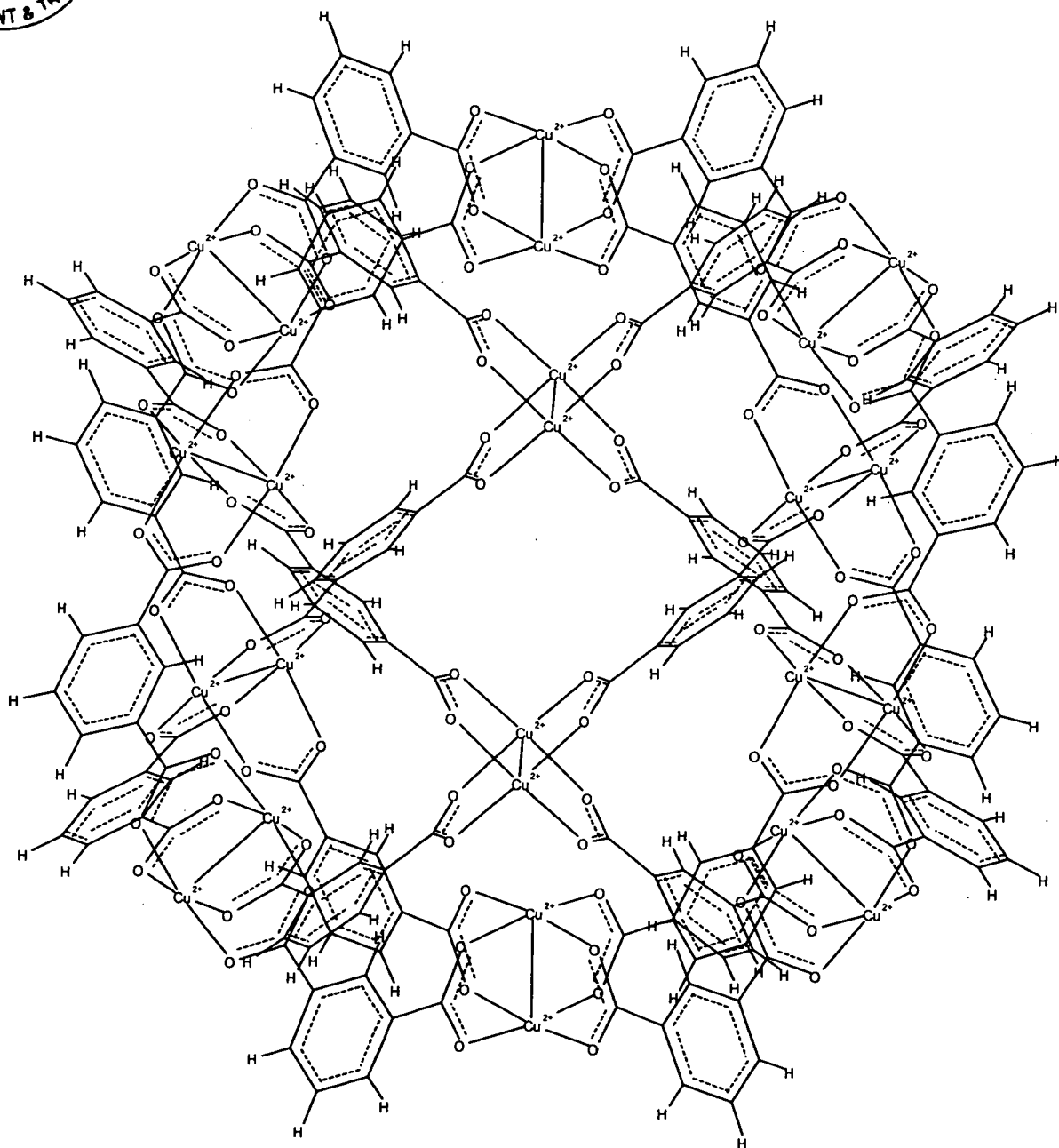
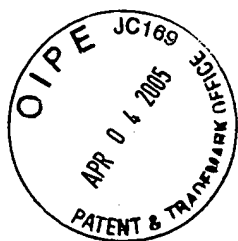
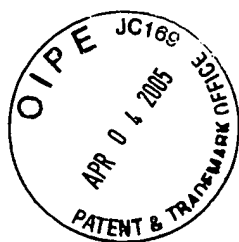


FIG. 16





20/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

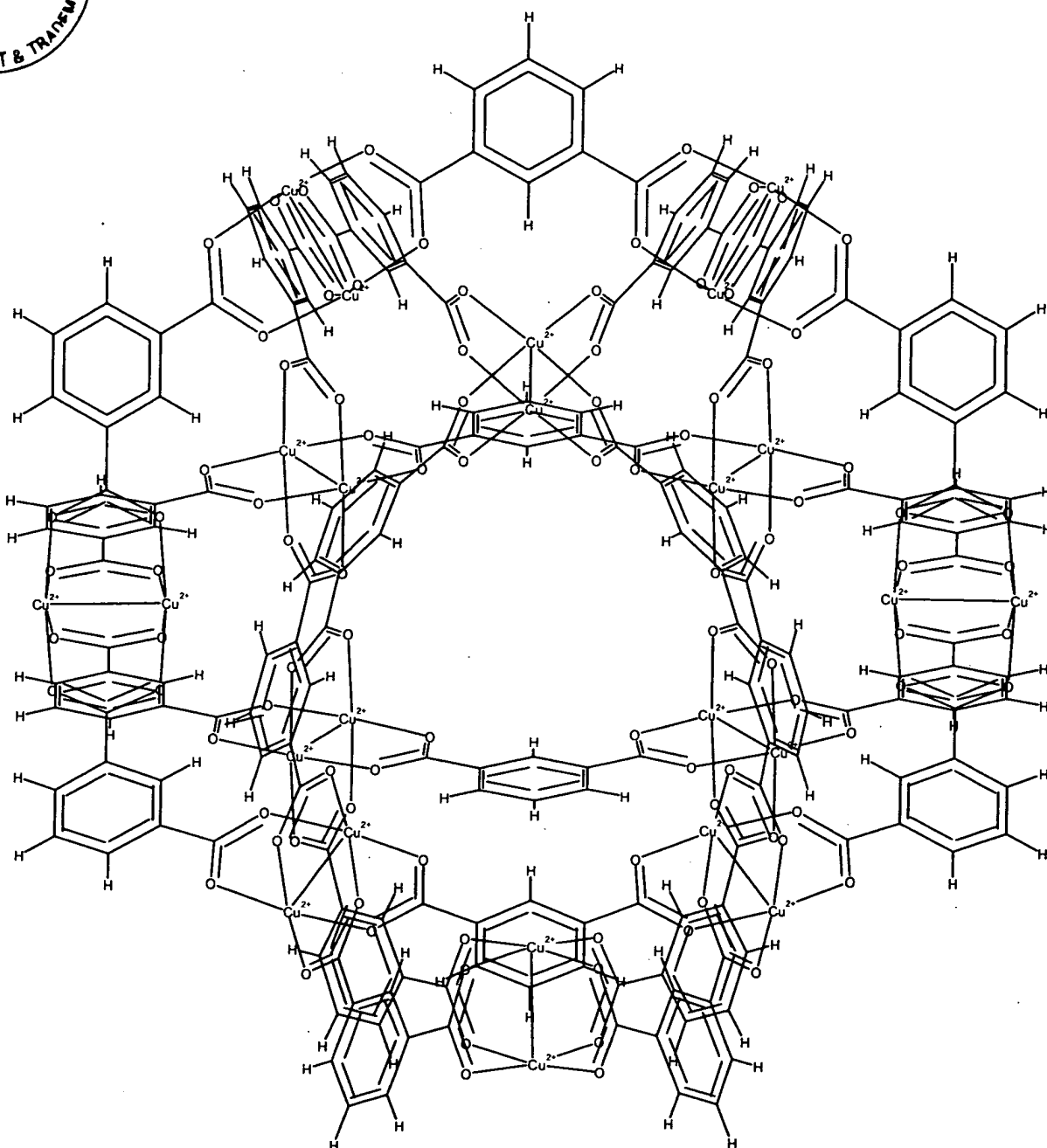


FIG. 17

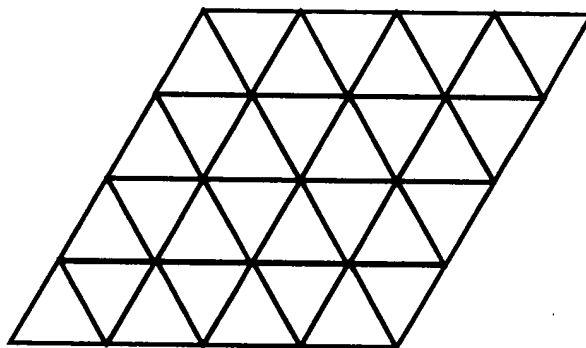
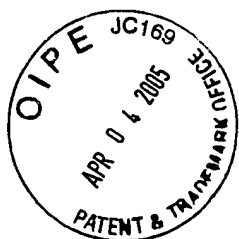


FIG. 18A

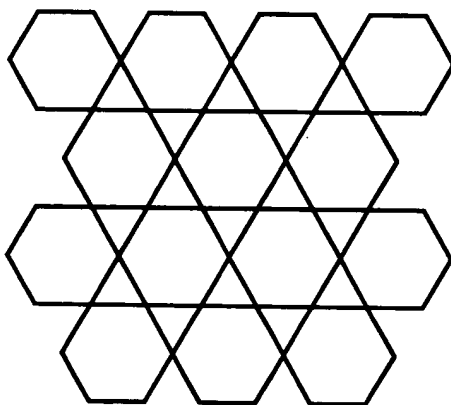


FIG. 18B

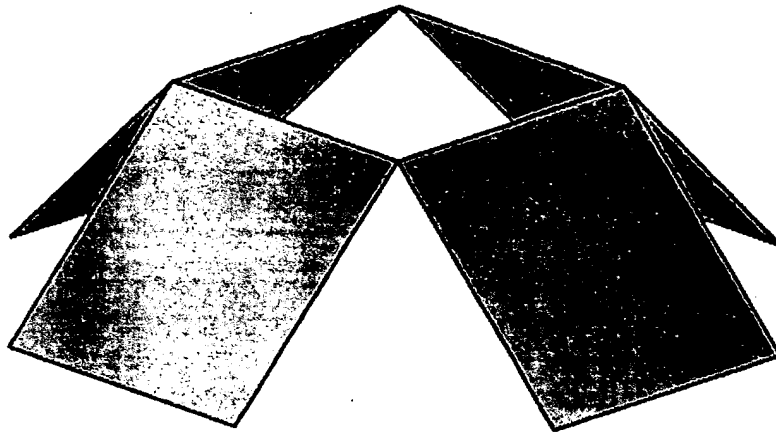
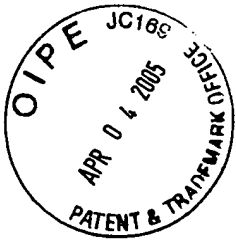


FIG. 19A

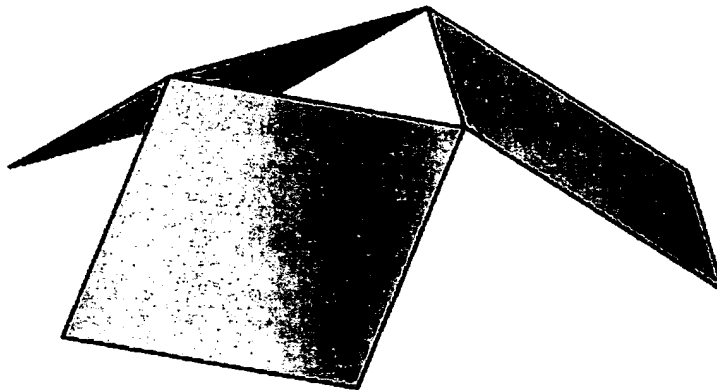


FIG. 19B

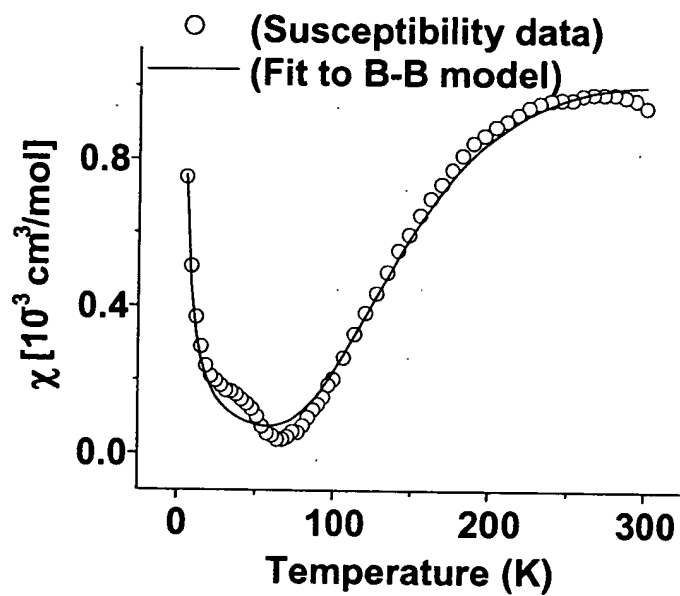
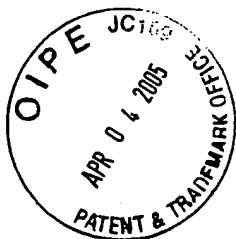


FIG. 20A

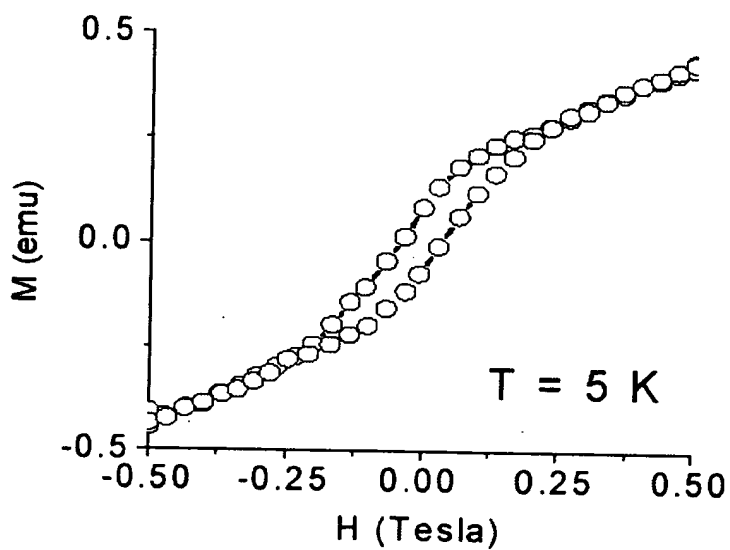


FIG. 20B

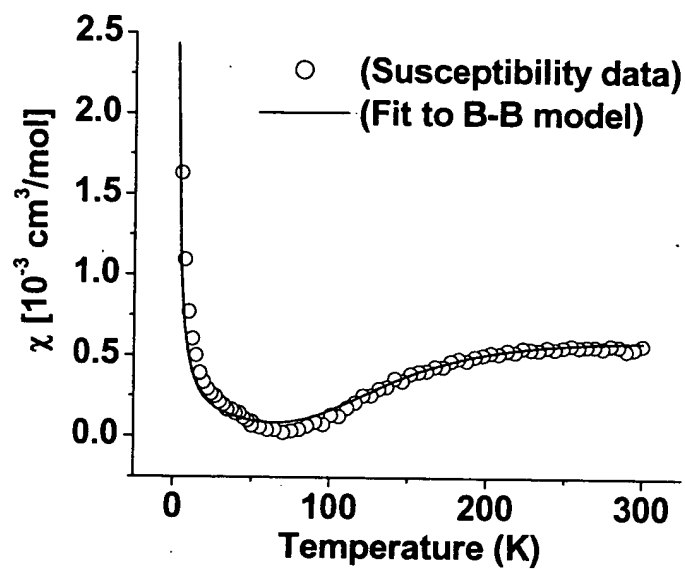
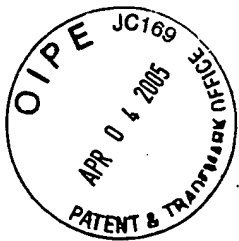


FIG. 21A

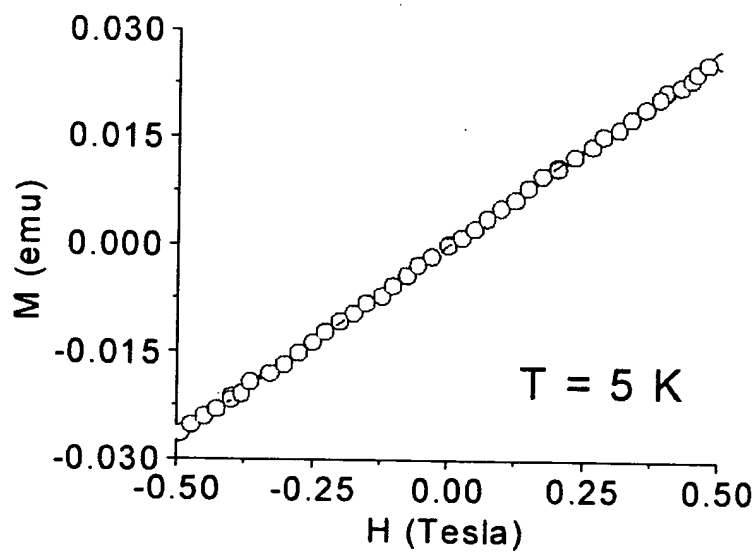


FIG. 21B

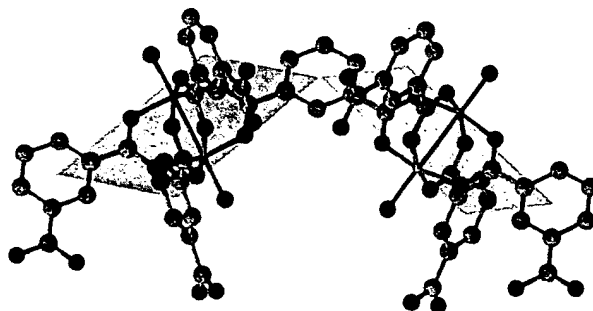
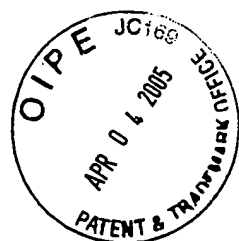


FIG. 22

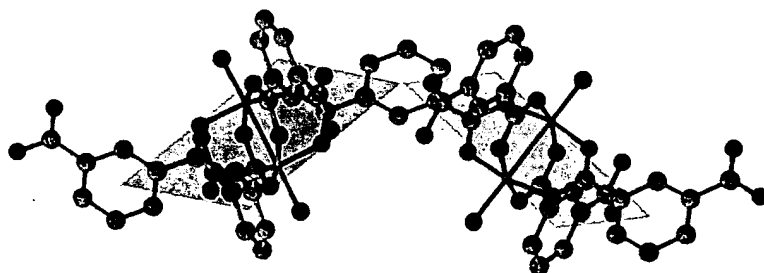
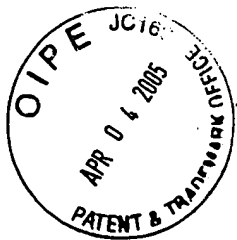


FIG. 23



26/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

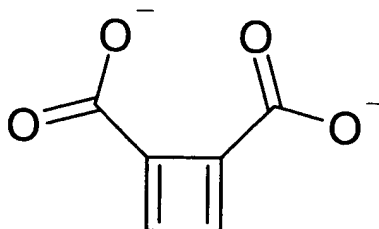
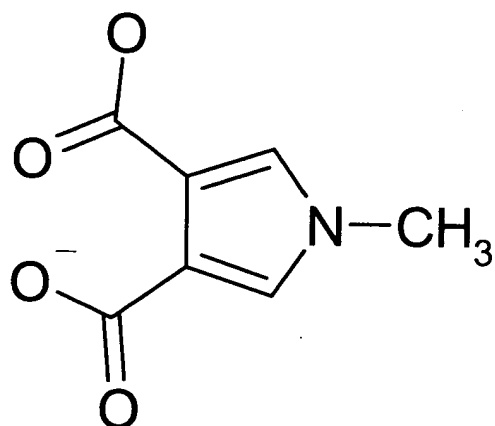


FIG. 24A



Actually 72°, but can sustain distortion to 90° (proven by molecular modelling experiments)

FIG. 24B

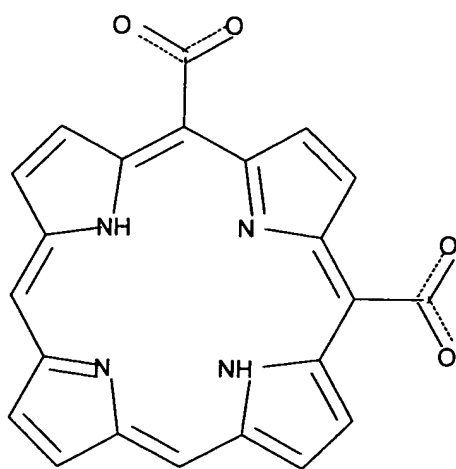
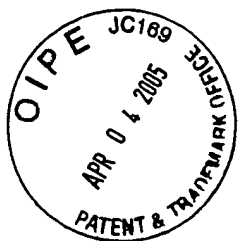


FIG. 24C



27/29  
10/083,781  
Filed February 25, 2002  
(Zaworotko, Moulton)

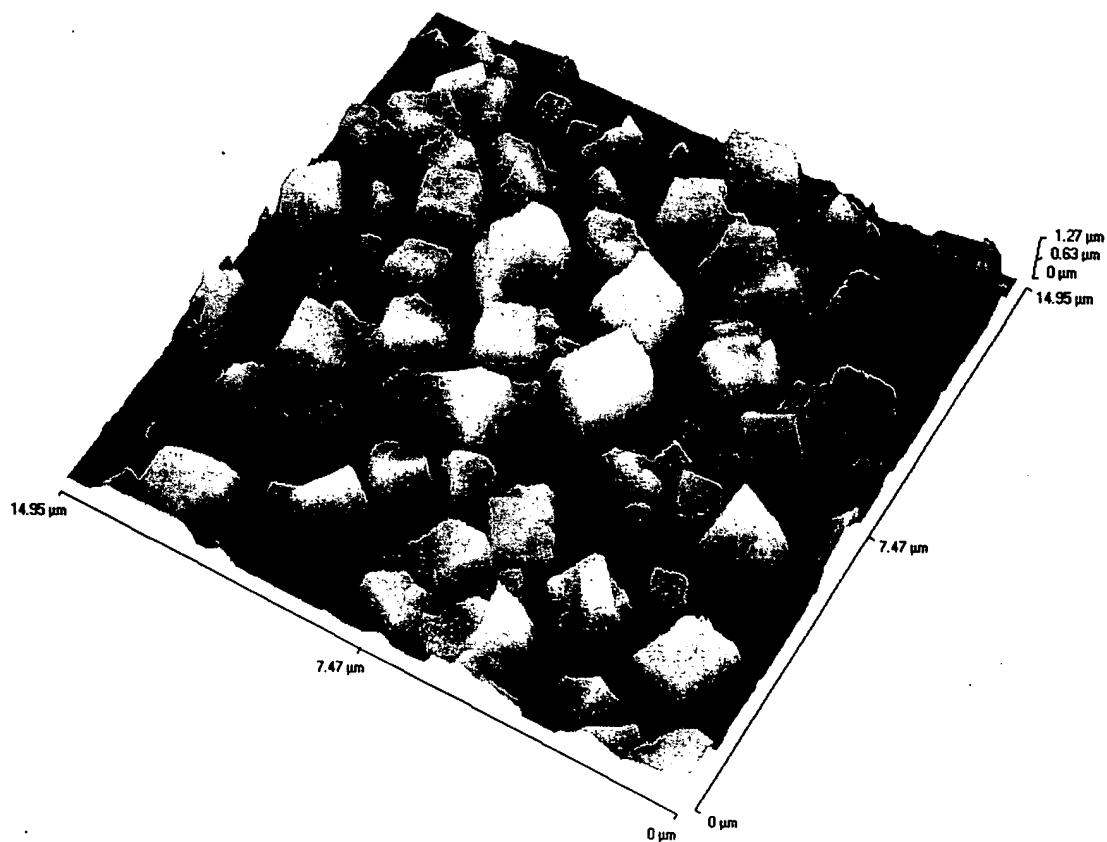


FIG. 25



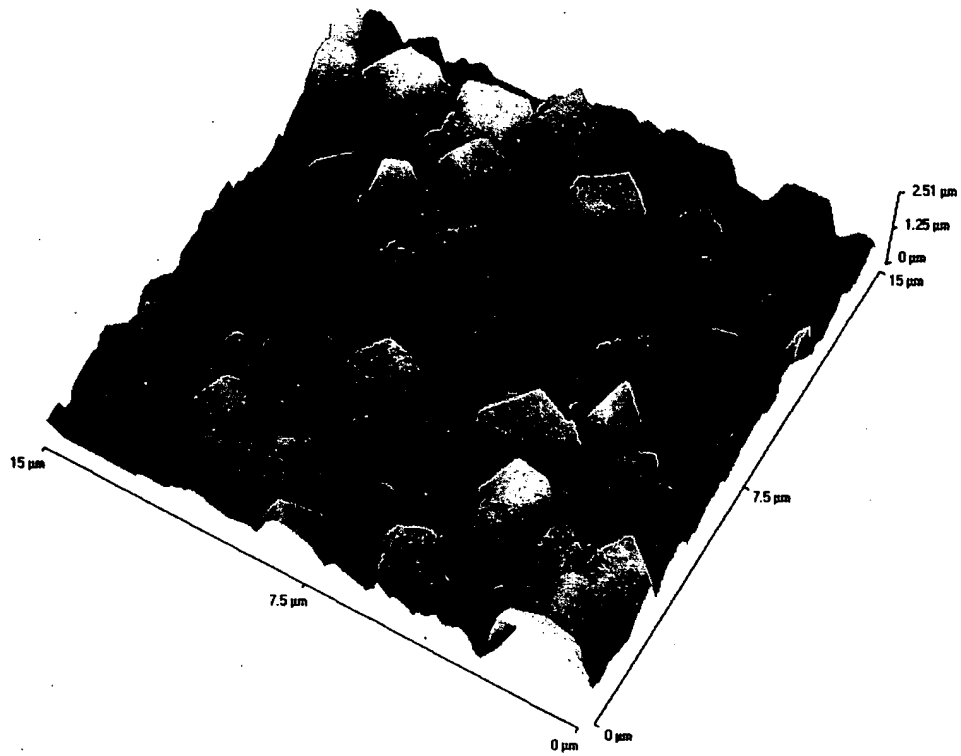
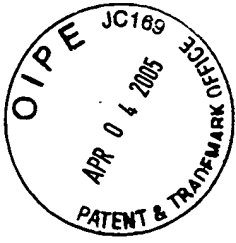


FIG. 26

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**